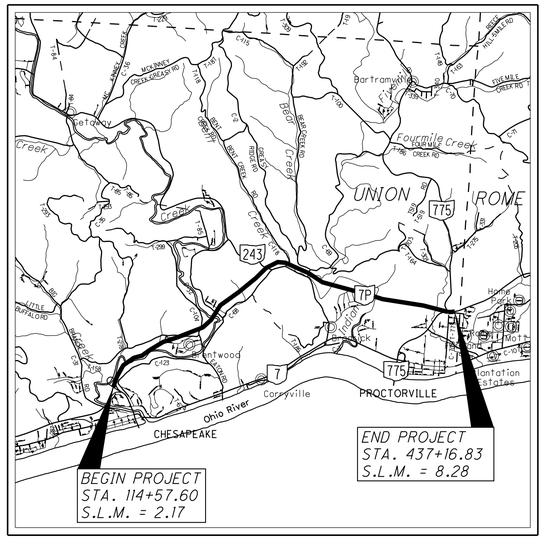
STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

LAW-7-2.17

VILLAGE OF CHESAPEAKE
VILLAGE OF PROCTORVILLE
UNION TOWNSHIP
ROME TOWNSHIP
LAWRENCE COUNTY



LOCATION MAP

LATITUDE: N 38°27'16" LONGITUDE: W 82°25'19"

SCALE IN MILES

0 1 2 3 4

PORTION TO BE IMPROVED

INTERSTATE HIGHWAY

FEDERAL ROUTES

STATE ROUTES

COUNTY & TOWNSHIP ROADS

OTHER ROADS

FOR DESIGN DESIGNATIONS AND DESIGN EXCEPTIONS, SEE SHEET 2.

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:

Stantec
1500 Lake Shore Drive, Suite 100
Columbus, Ohio 43204
(614) 486-4383

OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT NINE
650 EASTERN AVENUE, P.O. BOX 467
CHILLICOTHE, OHIO 45601

INDEX OF SHEETS:

PROJECT DESCRIPTION

THIS PROJECT IS THE THIRD PHASE OF THE LAW-7-2.17 STATE ROUTE 7 RELOCATION PROJECT. THIS PROJECT WILL CONSTRUCT 6.11 MILES OF THE EASTBOUND LANES OF STATE ROUTE 7 BETWEEN STATE ROUTE 527 AND STATE ROUTE 775. THIS PROJECT ALSO INCLUDES A PARTIAL GRADE SEPARATED INTERCHANGE AT STATE ROUTE 527 AND A FULL INTERCHANGE AT STATE ROUTE 775. ALSO INCLUDED WITH THIS PROJECT IS THE CONSTRUCTION OF A ROUNDABOUT AT THE INTERSECTION OF STATE ROUTE 7 AND STATE ROUTE 243. THIS IMPROVEMENT INCLUDES THE RELOCATION OF 1.98 MILES OF STATE ROUTES, COUNTY AND TOWNSHIP ROADS AS WELL AS THE ADDITION OF 1.28 MILES OF RAMP AND ELEVEN (11) DRIVES. A TOTAL OF TEN (10) STRUCTURES WILL BE DEVELOPED WHICH INCLUDE TRAFFIC OVERPASS AND STREAM CROSSING BRIDGES. WORK WILL INCLUDE NEW STORM SEWERS, CULVERTS, NOISE AND RETAINING WALLS, TRAFFIC CONTROL, PAVEMENT MARKING AND LIGHTING.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	281 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	77 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	358 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 63-66.

Michael G. Dombrowski
District 09 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

FEDERAL PROJECT NO.
E035(921)
E060(482)

PID NO.
75923

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

LAW-7-2.17

1
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 28, T-1-N, R-16-W

HENSON HOLLOW RD.
T.R. 158
Ex R/W
LA R/W
9 RICHARD J. BOLEN
23-113-0200.000
7 STATE OF OHIO
23-112-1900.000
O.R. 154, PG. 35
9 RICHARD J. BOLEN
23-113-0100.000
15
23-112-0508.000
TREE CLEARING AREA - A
STREAM 2
HENSON HOLLOW EMERGENCY ACCESS
TREE CLEARING AREA - C
151+00.00 186.65' LT
151+00.00 170.00' LT
151+15.32 183.76' LT
153+06.84 187.27' LT
155+46.56 187.25' LT
154+35.97 160.70' LT
156+42.87 194.02' LT
156+41.93 187.22' LT
158+69.00 241.36' LT
158+26.32 234.86' LT
157+11.57 219.45' LT
Wooded Area
Uncultivated
Field Drive
Gate
Split Rail
Gravel
24" emp
CH Comb
OH Comb
10 -WD
10 -W
10 -E
(L.L.)
WETLAND
℄ WESTBOUND LANES
FUTURE LANES
℄ R/W & CONST. S.R. 7
CURVE NO. 1
WORK LIMITS
MATCH LINE STA. 147+00
MATCH LINE STA. 160+00
W.L.S. 18"
15" S.T.M.
8" W
ALLISON DR.
BRENTWOOD VILLAGE SECTION 7 (UNRECORDED PLAT)
N 70° 54' 16" E
158+26.79 103.96' LT
158+47.92 34.79' LT
159+04.04 82.76' RT
160+00.00 190.00' RT
147+00.00 135.00' RT
153+00.00 115.00' RT
153+53.96 124.32' RT
154+00.01 120.00' RT
155+35.21 150.27' RT
157+00.00 170.00' RT
159+02.29 153.98' RT
4' Wire Fence
Wood Debris
Rock Pile
Pond
Wetland
Symmes Creek
Brush
Ex. Drain
15-21" pine trees
18"
36"
10 HOWARD W. & RUTH R. PERDUE, AND NANCY P. HAMBURG
11 RONNIE & LYNN M. KINGERY
15 JAMES M. & GARRETTA LEWIS

CURVE DATA
S.R. 7
CURVE NO. 1

P.I. STA. 138+60.99
Δ = 53° 33' 53" (RT)
Dc = 1° 27' 15"
R = 3,940.00'
T = 1,880.13'
L = 3,508.44'
E = 425.60'
TS STA. 117+84.61
SC STA. 119+59.61
θs = 1° 16' 21"
Ls = 175.00'
Ts = 2,076.38'
LT = 116.67'
ST = 58.34'
CS STA. 154+68.05
ST STA. 156+43.05

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

N

0 25 50 100 HORIZONTAL SCALE IN FEET

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 7
TREE CLEARING STA. 147+00 TO STA. 160+00

22D
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 21 & 28, T-1-N, R-16-W

LAW-7-2.17
TREE CLEARING
STA. 160+00 TO STA. 170+80

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

HORIZONTAL SCALE IN FEET
0 25 50 100

22E
1247

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MATCH LINE STA. 160+00

MATCH LINE STA. 170+80

STREAM 3

STREAM 3A

SECTION 21
SECTION 28

HENSON HOLLOW RD.

ALLISON DR.

BIRCH LN.

WOODLAND DR.

FOREST DR.

BRENTWOOD VILLAGE SECTION 7 (UNRECORDED PLAT)

BRENTWOOD VILLAGE SUBD. SECTION NO. 6 PB 8 PG 167

℄ WESTBOUND LANES

161 FUTURE LANES 162

℄ R/W & CONST. S.R. 7

N 70° 54' 16" E

WORK LIMITS

Ex R/W

LA-R/W

T.R. 158

36" STM

15" STM

Wooded Area

Gravel Drive

Asphalt Drive

Stone Base (overgrown)

Mobile Home Res. # 223

"A" Frame Res. #293

1 1/2 Sty Brick Res #2

2 Car Garg.

1 Sty Brick Res. #81

1 Sty Vinyl Res #67

2 Sty Vinyl Res #99

1 1/2 Sty Brick/Vinyl Res. #37

2 Sty Frm Res. # 32

3 Sty Frm Res. # 48

2 Sty Frm Res. # 76

2 Sty Frm Res. # 94

1 Sty Frm Res. # 85

1 1/2 Sty Frm Res. # 42

1 1/2 Sty Frm Res. # 57

Ptry House

Shed

Pool

Play Hse

Garden

Vacant

Deck

Patio

Porch

Fence

Gate

Guard Rail

Utility Pole

Light Pole

Mail Box

Sign

Culvert

Catch Basin

Manhole

Inlet

Valve

Meter

Cable Pedestal

Gas Meter

Air Cond.

Play Equip.

Shrubs

Trees

Conc.

Asphalt

Gravel

Wood

Brick

Vinyl

Frame

Garg.

Lndscp

Pntr

Rvc

Sph.

Ex R/W

10' UTILITY ESMT.

5' GAS ESMT.

12" cpp

8" cmp

8" PVC

8" WV

6" WV

4" WV

8" SAN

4" SAN

W.M.

OH-Comb

OH-Elec

TV

T

G

W

SAN

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

(15) JAMES M. & GARRETTA LEWIS 23-079-0800.000

(16) JEFFREY COMBS 23-079-0801.000

23-112-0502.000

23-112-0508.000

23-112-0503.000

(10) HOWARD W. & RUTH R. PERDUE, AND NANCY P. HAMBURG

(11) RONNIE & LYNN M. KINGERY

(12) HOWARD W. & RUTH R. PERDUE

(13) ROBERT P. & ELIZABETH M. TABER

(17) FRANCESCA KARLE AND DAVID & ANTONETTA KARLE

(19) WILLARD D. SPEARS

(20) PENNY SUE MARTIN AND BRIAN S. MARTIN

(21) STATE OF OHIO DEPARTMENT OF TRANSPORTATION

(22) JOHN M. HILL, II & MANDY J. HILL

(23) BRAD & EMMA MCNEILL

(24) ROBERT & CONCEPCION J. HINTZ

(25) JAMES T. & MELISSA POINTER

(27) RYAN B. & LESLIE R. DAVIS

(28) DANNY HOLSCHUH AND FRED HAYES

(31) JAMES R. & REBECCA MCCOMAS

(33) ROBERT & CONCEPCION HINTZ

(35) STATE OF OHIO

(36) STATE OF OHIO

(37) STEVEN D. & LESLIE R. FLOUHOUSE

(45) RICHARD HOUSTON

LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 21, T-1-N, R-16-W

55 BOBBY L. & ROBERTA J. ESTEP
23-080-0700.000

50 DONALD RAYMOND WAUGH
53 JOHNNIE R. SCOTT & SARAH A. GILLESPIE
54 KERSTEN B. & KINDRA R. HARRIS
55 BOBBY L. & ROBERTA J. ESTEP
56 CHARLES & CHARLOTTE POYNTER
57 BARBARA SHOCKLEY
59 THOMAS D. THORNBURGH, SR. & BARBARA J. HODGE THORNBURGH
61 GEARLD & VALERIA SHOCKLEY
63 THOMAS E. & SALLY NEWTON

60 JERRY SCHOCKLEY
23-079-1500.002

57 BARBARA SHOCKLEY
23-080-0400.000

SEE TREE CLEARING ADJACENT TO WETLANDS NOTE SHEET P.9 FOR DETAILS ON PROTECTING THE WETLANDS.

STREAM 5 — WETLAND — Wooded Area — Pond — Deck — Trail — Brush — Flag Pole — Outcrop — Dog Pen — Shed — Garage — Privy — Well — Fndtn — Fence — Gravel — Concrete — Patio — Wood Pile — Bird Feeder — Split Rail Fence — Steel Bridge — Culvert — Guide Rail — Guide Rail End Treatment — Utility Pole — Guy Wire — Overhead Utility Line — Underground Utility Line — Underground Gas Line — Underground Telephone Line — Underground Electric Line — Underground Cable TV Line — Underground Fiber Optic Line — Underground Water Line — Underground Sewer Line — Underground Storm Sewer Line — Underground Drain Line — Underground Culvert Line — Underground Pipe Line — Underground Conduit Line — Underground Duct Line — Underground Casing Line — Underground Tank Line — Underground Vault Line — Underground Manhole Line — Underground Inlet Line — Underground Catch Basin Line — Underground Headwall Line — Underground Endwall Line — Underground Wingwall Line — Underground Apron Line — Underground Slope Protection Line — Underground Riprap Line — Underground Gabion Line — Underground Mattress Line — Underground Retaining Wall Line — Underground Crib Wall Line — Underground Gravity Wall Line — Underground Cantilever Wall Line — Underground Sheet Pile Wall Line — Underground Soldier Pile Wall Line — Underground Tieback Wall Line — Underground Anchored Wall Line — Underground Soil Nail Wall Line — Underground Mechanically Stabilized Earth Wall Line — Underground Reinforced Soil Slope Line — Underground Geosynthetic Reinforced Soil Slope Line — Underground Geosynthetic Reinforced Soil Wall Line — Underground Geosynthetic Reinforced Soil Abutment Line — Underground Geosynthetic Reinforced Soil Pier Line — Underground Geosynthetic Reinforced Soil Footing Line — Underground Geosynthetic Reinforced Soil Foundation Line — Underground Geosynthetic Reinforced Soil Slope Line — Underground Geosynthetic Reinforced Soil Wall Line — Underground Geosynthetic Reinforced Soil Abutment Line — Underground Geosynthetic Reinforced Soil Pier Line — Underground Geosynthetic Reinforced Soil Footing Line — Underground Geosynthetic Reinforced Soil Foundation Line

℄ R/W & CONST. S.R. 7

MATCH LINE STA. 182+70

MATCH LINE STA. 195+00

CURVE NO. 2

FUTURE LANES

WORK LIMITS

PRIVATE GAS LINE EXACT LOCATION UNKNOWN

(2) Prv. Gas Lines Exact Location Unknown

BOOTHE-EATON RD. EX R/W C.R. 104

5' W.L. ESMT. DB 537 PG 758 DB 462 PG 103

1-TR	192+81.54 14.35' RT
2-TR	193+00.40 148.90' RT
3-TR	193+16.90 188.32' RT
4-TR	192+82.40 167.49' RT
5-TR	192+79.53 170.45' RT
6-TR	191+74.49 26.96' RT
7-TR	191+18.57 14.57' RT

CURVE DATA
S.R. 7
CURVE NO. 2

P.I. STA. 182+06.44
Δ = 24° 16' 14" (LT)
Dc = 2° 10' 43"
R = 2,630.00'
T = 423.13'
L = 839.08'
E = 33.82'
TS STA. 175+03.18
SC STA. 177+78.18

θs = 2° 59' 44"
Ls = 275.00'
Ts = 703.26'
LT = 183.36'
ST = 91.69'
CS STA. 186+17.26
ST STA. 188+92.26

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

TREE CLEARING PLAN - S.R. 7
STA. 182+70 TO STA. 195+00

LAW-7-2.17
TREE CLEARING

22H
1247

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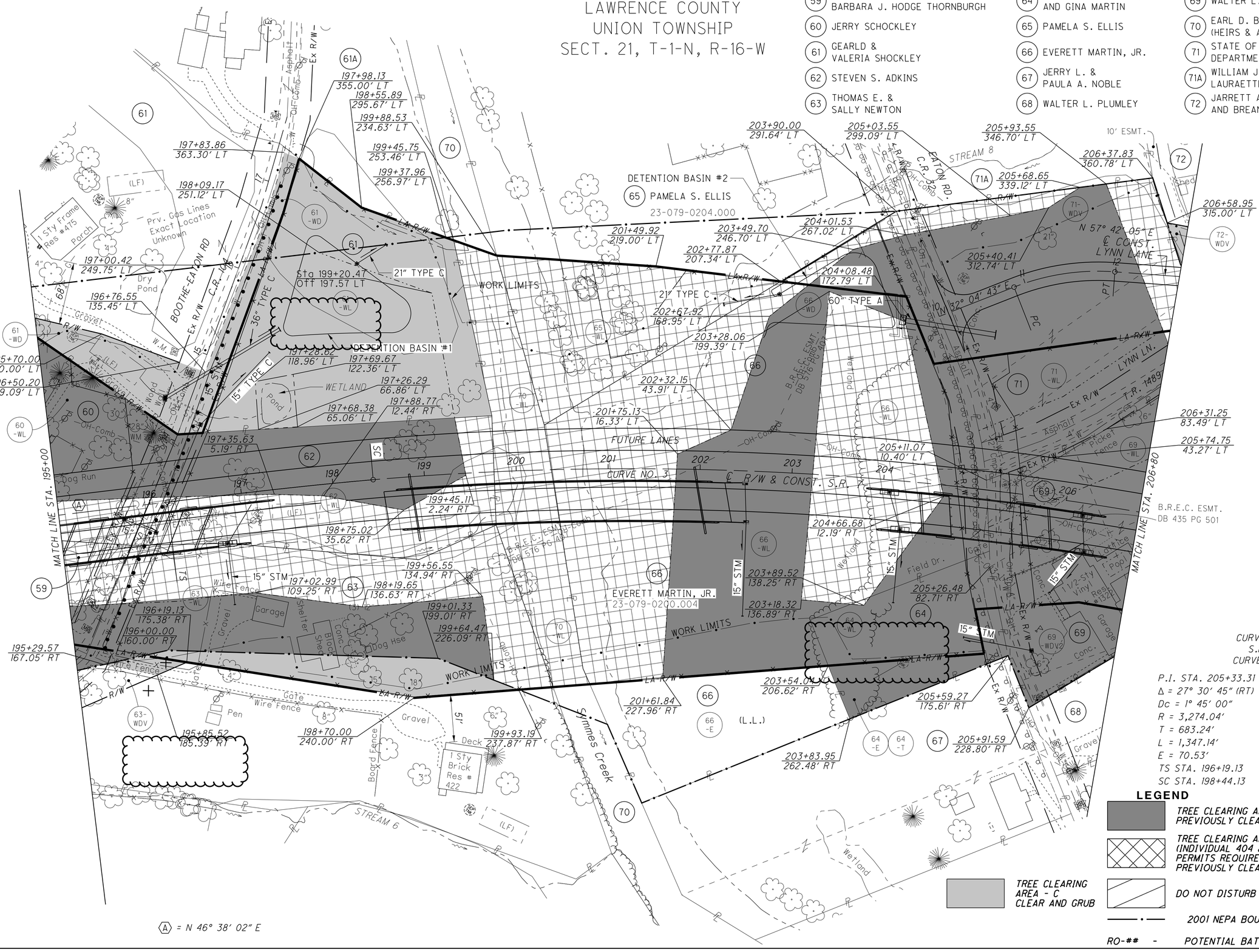
LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 21, T-1-N, R-16-W

59 THOMAS D. THORNBURGH, SR. & BARBARA J. HODGE THORNBURGH
60 JERRY SCHOCKLEY
61 GEARLD & VALERIA SHOCKLEY
62 STEVEN S. ADKINS
63 THOMAS E. & SALLY NEWTON
64 EVERETT D. MARTIN, JR. AND GINA MARTIN
65 PAMELA S. ELLIS
66 EVERETT MARTIN, JR.
67 JERRY L. & PAULA A. NOBLE
68 WALTER L. PLUMLEY
69 WALTER L. PLUMLEY
70 EARL D. BRAMMER (HEIRS & ASSIGNS)
71 STATE OF OHIO DEPARTMENT OF TRANSPORTATION
71A WILLIAM J. & LAURAETTE J. KNAPP
72 JARRETT AUSTIN WHITMORE AND BREANNA NICOLE WHITMORE



CURVE DATA
LYNN LANE
P.I. STA. 11+44.17
Δ = 25° 37' 23" (RT)
Dc = 22° 55' 06"
R = 250.00'
T = 56.85'
L = 111.80'
E = 6.38'
PC STA. 10+87.32
PT STA. 11+99.12

CURVE DATA
S.R. 7
CURVE NO. 3

P.I. STA. 205+33.31
Δ = 27° 30' 45" (RT)
Dc = 1° 45' 00"
R = 3,274.04'
T = 683.24'
L = 1,347.14'
E = 70.53'
TS STA. 196+19.13
SC STA. 198+44.13
θs = 1° 58' 07"
Ls = 225.00'
Ts = 914.18'
LT = 150.01'
ST = 75.01'
CS STA. 211+91.27
ST STA. 214+16.27

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT
- TREE CLEARING AREA - C CLEAR AND GRUB

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 120720
R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 7
TREE CLEARING STA. 195+00 TO STA. 206+80

221
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 21 & 22, T-1-N, R-16-W

86
WESLEY L. COLLINS
23-079-0200.007

91
TRACEY & CAROL ELLIS
23-083-0800.000

86
WESLEY L. COLLINS
23-083-0900.000

90
BILL A. BROWN
23-083-1300.000

82
STATE OF OHIO
23-083-0900.002

69 WALTER L. & BRENDA H. PLUMLEY
71 STATE OF OHIO DEPARTMENT OF TRANSPORTATION
72 JARRETT AUSTIN WHITMORE AND BREANNA NICOLE WHITMORE
81 RAYMOND R. & ALMA J. MCHONE
84 ELWOOD E. & AMBER C. WILSON
85 BLAIR P. & APRIL D. WRIGHT

CURVE DATA
S.R. 7
CURVE NO. 3

P.I. STA. 205+33.31
Δ = 27° 30' 45" (RT)
Dc = 1° 45' 00"
R = 3,274.04'
T = 683.24'
L = 1,347.14'
E = 70.53'
TS STA. 196+19.13
SC STA. 198+44.13
θs = 1° 58' 07"
Ls = 225.00'
Ts = 914.18'
LT = 150.01'
ST = 75.01'
CS STA. 211+91.27
ST STA. 214+16.27

LEGEND

TREE CLEARING AREA - A
PREVIOUSLY CLEARED, GRUB ONLY

TREE CLEARING AREA - B
(INDIVIDUAL 404 & 401 PERMITS REQUIRED)
PREVIOUSLY CLEARED, GRUB ONLY

TREE CLEARING AREA - C
CLEAR AND GRUB

DO NOT DISTURB AREA (DND)

2001 NEPA BOUNDARY

RO-## - POTENTIAL BAT HABITAT

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 7
STA. 206+80 TO STA. 220+00 (NORTH)

22J
1247

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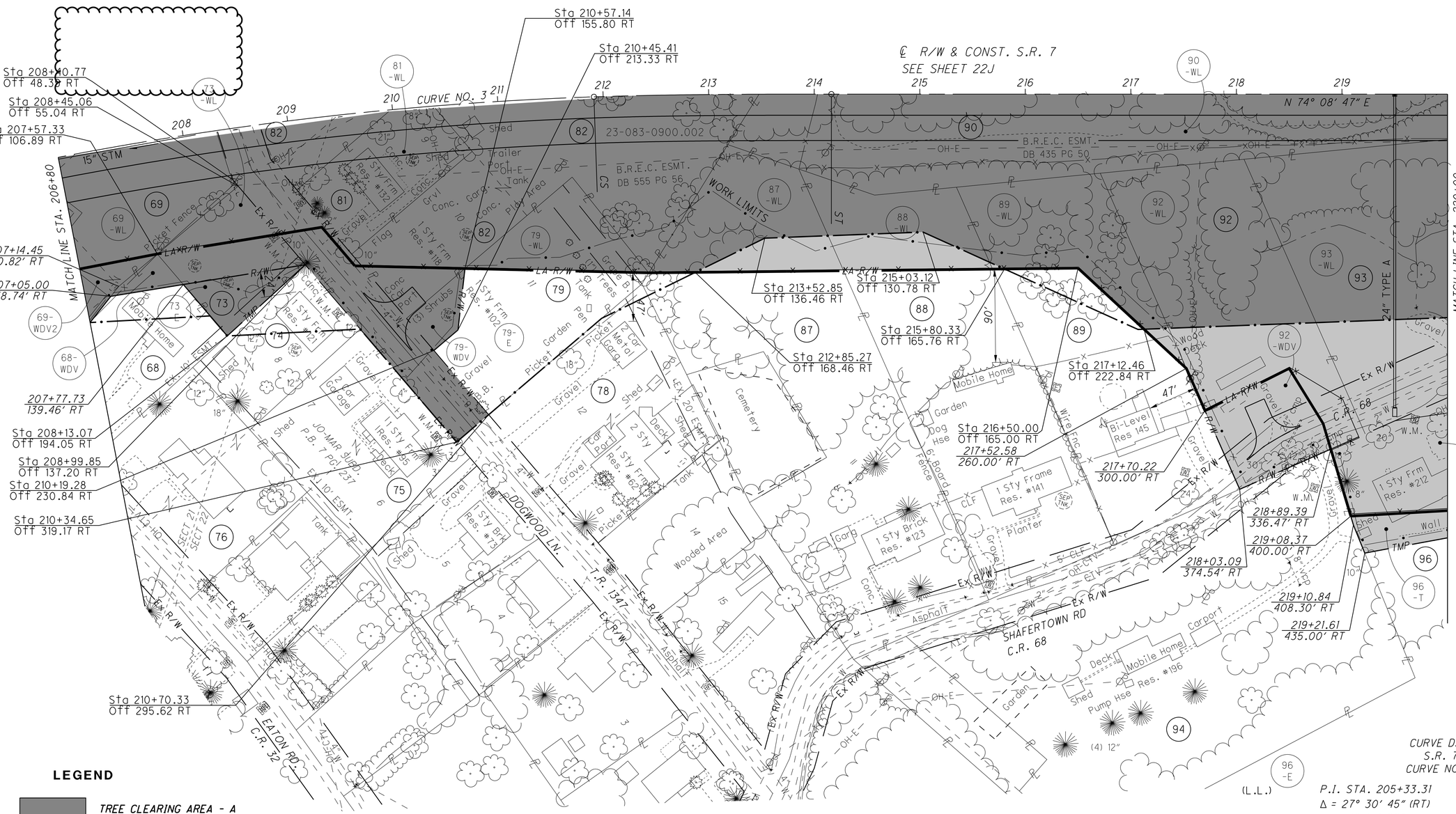
LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 21 & 22, T-1-N, R-16-W



LEGEND

- TREE CLEARING AREA - A
  PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B
  (INDIVIDUAL 404 & 401 PERMITS REQUIRED)
  PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C
  CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

(68) WALTER L. PLUMLEY
(69) WALTER L. PLUMLEY
(73) STATE OF OHIO
(74) MARY R. SMITH
(75) DONNA M. ADKINS
(76) KAREN EVANS
(78) NANCY MCKENZIE
(79) STATE OF OHIO
(81) RAYMOND R. & ALMA J. MCHONE
(82) STATE OF OHIO
(87) JAMES A. MONTGOMERY
(88) JAMES G. SMITH
(89) FRANCIS JAMES BUDD & BRANDY RENAY BUDD
(90) BILL A. BROWN
(92) JOHNNY E. & JANIE E. SMITH
(93) JAMES H. & ROSA SMITH
(94) CHARLES W. & MAZIE L. RULEN
(96) MATTHEW SCOTT LUSHER AND MARGARET MARTIN

CURVE DATA
S.R. 7
CURVE NO. 3

P.I. STA. 205+33.31
Δ = 27° 30' 45" (RT)
Dc = 1° 45' 00"
R = 3,274.04'
T = 683.24'
L = 1,347.14'
E = 70.53'
TS STA. 196+19.13
SC STA. 198+44.13

θs = 1° 58' 07"
Ls = 225.00'
Ts = 914.18'
LT = 150.01'
ST = 75.01'
CS STA. 211+91.27
ST STA. 214+16.27

HORIZONTAL SCALE IN FEET
0 25 50 100

P.I.D. NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 7
STA. 206+80 TO STA. 220+00 (SOUTH)
TREE CLEARING

22K
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 22, T-1-N, R-16-W

Sta 247+00.00
Off 120.00 LT

Sta 249+99.20
Off 100.56 LT

Sta 249+49.37
Off 91.24 LT

Sta 250+43.54
Off 114.79 LT

Sta 250+39.65
Off 268.61 LT

Sta 251+07.69
Off 195.60 LT

Sta 251+37.73
Off 60.61 LT

Sta 253+27.64
Off 265.95 LT

Sta 254+01.08
Off 156.13 LT

Sta 254+07.00
Off 147.90 LT

℄ R/W & CONST.
C.R. 69

Wooded Area

(121) 23-082-0800.000

Sta 249+00.11
Off 88.26 LT

(121-E) (L.L.)

Sta 248+43.51
Off 115.21 LT

(121) GEORGE W. & MARILYN BLACK
23-082-0800.000

Sta 248+50.45
Off 95.54 LT

(127) JOSEPH E. GAGNON AND DORIS PRITT
23-082-0100.000

R/W TYP.

WORK LIMITS

Sta 253+49.94
Off 152.13 LT

Brush
30" TYPE A

Ex R/W

CURVE NO. 1
Δ = 22° 39' 36" (RT)
Dc = 24° 54' 40"
R = 230.00'
T = 46.08'
L = 90.96'
E = 4.57'
PC STA. 10+60.22
PT STA. 11+51.18

CURVE NO. 2
Δ = 10° 17' 44" (LT)
Dc = 4° 00' 00"
R = 1,432.39'
T = 129.04'
L = 257.39'
E = 5.80'
PC STA. 14+48.85
PT STA. 17+06.24

CURVE NO. 5
Δ = 58° 46' 06" (RT)
Dc = 3° 15' 00"
R = 1,762.95'
T = 773.76'
L = 1,458.26'
E = 162.33'
TS STA. 250+20.45
SC STA. 253+70.45

θs = 5° 41' 15"
Ls = 350.00'
Ts = 1,169.30'
LT = 233.45'
ST = 116.78'
CS STA. 268+28.71
ST STA. 271+78.71

STA. 251+92.69 S.R. 7 =
STA. 9+56.00 S.R. 243
BEGIN WORK S.R. 243

FUTURE LANES

15" STM

SHAFERTOWN RD.

C.R. 168

Res. #727
Res. #743
Res. #769
Mobile Home
Shed
Trailer
Gravel
Porch
New Duplex
RR Ties

30" stm

8" cmp

N 39° 55' 47" E

MATCH LINE STA. 244+00

MATCH LINE STA. 257+00

℄ R/W & CONST. S.R. 7
23-082-0700.000

(120-WL) (126-WL) (127-WL) (132-WDV) (135-WDV) (135-WL)

Sta 244+86.32
Off 9.22 RT

(120) ERNEST W. AND MILDRED R. BONZO, TRUSTEES
23-080-1400.000

Sta 245+41.48
Off 12.46 RT

Sta 245+61.35
Off 77.70 RT

Sta 246+13.31
Off 28.49 RT

Sta 247+75.22
Off 35.19 RT

Sta 247+36.60
Off 133.99 RT

Wooded Area
Sta 248+44.01
Off 168.50 RT

(126) MARANATHA BROADCASTING NETWORK, INC.
23-082-0500.000

Sta 248+93.04
Off 33.56 RT

Sta 250+00.95
Off 59.20 RT
(L.L.)

Ex. Drain

Field Dr. to Radio Tower

Wooded Area
Sta 250+52.35
Off 169.48 RT

Sta 250+37.00
Off 161.65 RT

Sta 251+41.91
Off 159.53 RT

Sta 253+70.45
Off 190.00 RT

Sta 251+84.51
Off 60.55 RT

Tower Cable

Wooded Area

Sta 254+31.89
Off 324.11 RT

Sta 255+77.18
Off 336.73 RT

Sta 255+26.15
Off 33.50 LT

Sta 254+84.04
Off 36.05 LT

Sta 254+06.81
Off 20.65 LT

Sta 252+87.36
Off 22.98 RT

Sta 252+61.40
Off 36.02 RT

Sta 256+69.09
113.59' LT

Sta 256+35.78
67.75' LT

Sta 256+33.18
Off 19.45 LT

(2) Sat. Dish
Deck
2 Sty Frame
Asphalt
1 Sty Block
Flag
Stone Wall
Res. #16928
Pool
Pool House
BBQ Pit
Tank
Pool
Gravel
Asphalt
Conc
Stockade Fence
1 Sty Frm Res. #16946
Sat Dish
Brush
Grass
Trail

CURVE NO. 1
CURVE NO. 2
CURVE NO. 5
PC
PT
TS
SC
CS
ST

(127) JOSEPH E. GAGNON AND DORIS PRITT
(132) LARRY & LINDA K. SITES
(135) ROGER & HELEN HENSON

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- TREE CLEARING AREA - C CLEAR AND GRUB
- RO-## - POTENTIAL BAT HABITAT

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 7
STA. 244+00 TO STA. 257+00

22N
1247

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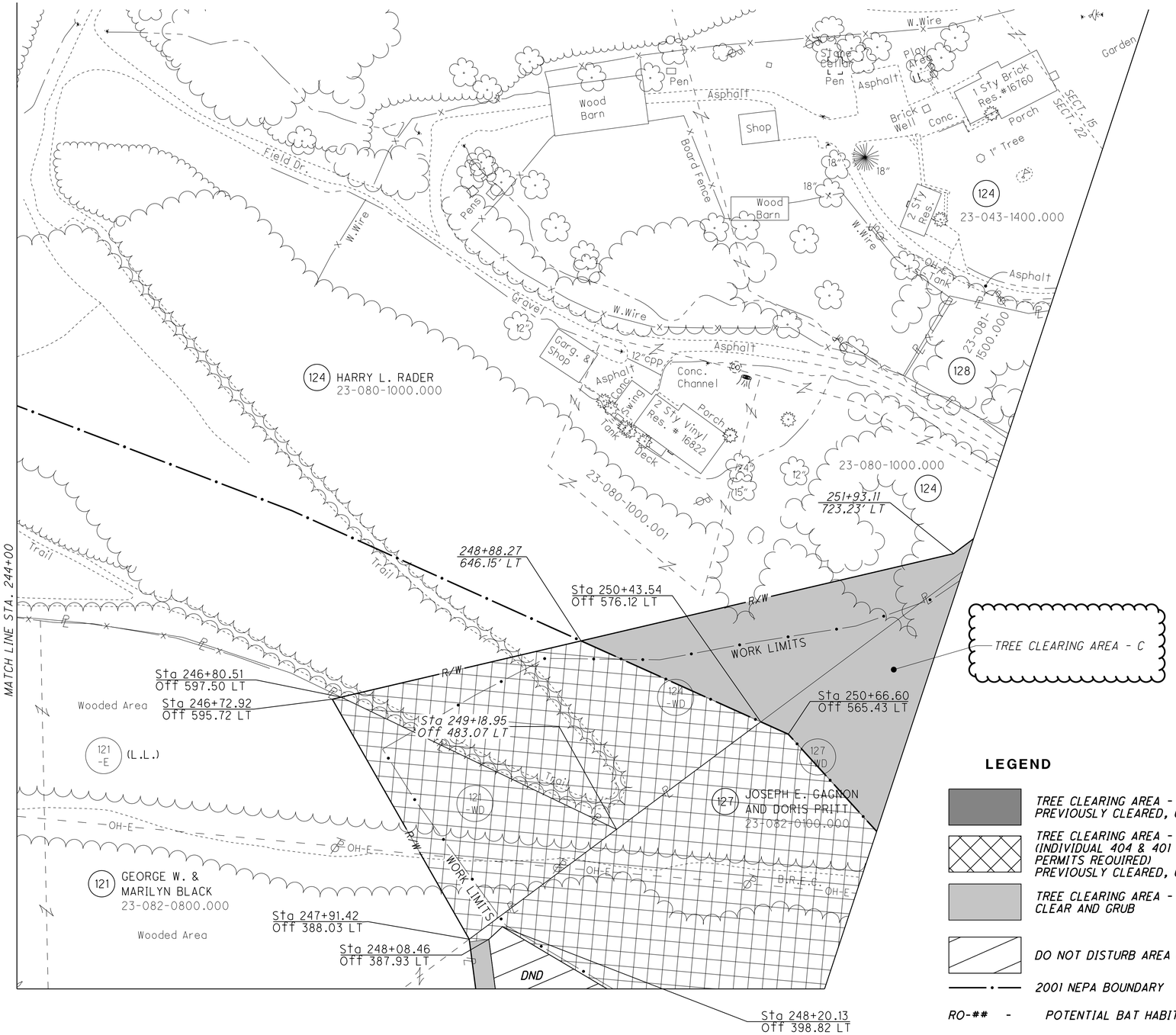
LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 22, T-1-N, R-16-W



LEGEND

- *TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY*
- *TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY*
- *TREE CLEARING AREA - C CLEAR AND GRUB*
- *DO NOT DISTURB AREA (DND)*
- *2001 NEPA BOUNDARY*
- *RO-## - POTENTIAL BAT HABITAT*

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

TREE CLEARING PLAN - S.R. 7
STA. 244+00 (NORTH)

LAW-7-2.17
TREE CLEARING

220
1247

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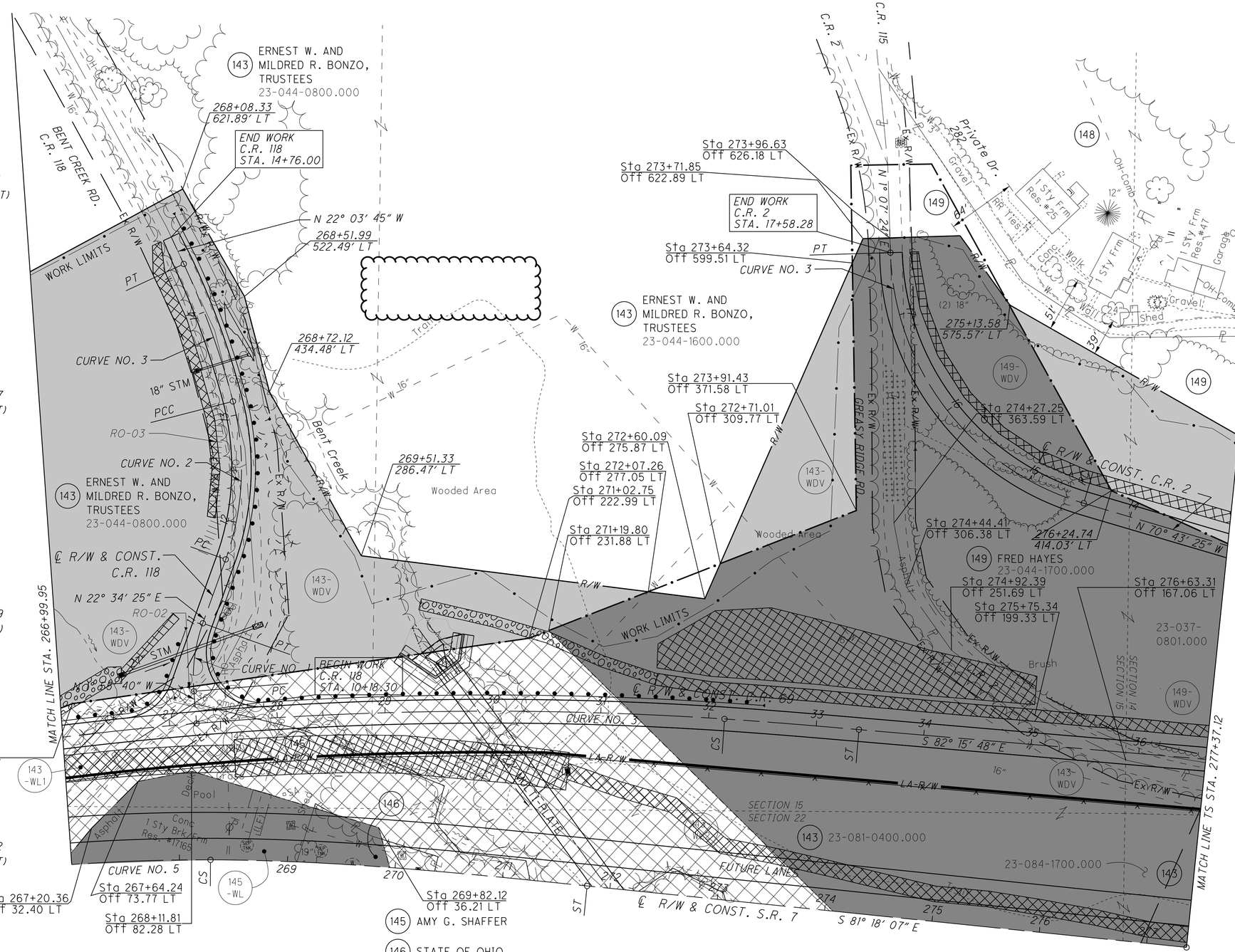
FOR LOCATION AND TYPE OF LA-R/W FENCE
SEE THE TABLE IN THE ROADWAY PLAN

LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 14, 15 & 22 T-1-N, R-16-W



CURVE DATA
C.R. 118
CURVE NO. 1
P.I. Sta. 10+69.71
Δ = 24° 30' 05" (RT)
Dc = 38° 11' 50"
R = 150.00'
T = 32.57'
L = 64.14'
E = 3.49'
PC STA. 10+37.14
PT STA. 11+01.28

CURVE DATA
C.R. 118
CURVE NO. 2
P.I. STA. 12+40.87
Δ = 34° 13' 00" (LT)
Dc = 23° 00' 00"
R = 249.11'
T = 76.68'
L = 148.77'
E = 11.53'
PC STA. 11+64.19
PCC STA. 13+12.96

CURVE DATA
C.R. 118
CURVE NO. 3
P.I. STA. 13+80.89
Δ = 10° 25' 10" (LT)
Dc = 7° 41' 27"
R = 745.00'
T = 67.93'
L = 135.48'
E = 3.09'
PCC STA. 13+12.96
PT STA. 14+48.44

CURVE DATA
C.R. 2
CURVE NO. 3
P.I. Sta. 16+25.92
Δ = 71° 50' 49" (RT)
Dc = 22° 55' 06"
R = 250.00'
T = 181.13'
L = 313.49'
E = 58.72'
PC Sta. 14+44.79
PT Sta. 17+58.28

CURVE DATA
C.R. 69
CURVE NO. 3
P.I. Sta. 25+76.25
Δ = 22° 45' 00" (RT)
Dc = 1° 45' 00"
R = 3,274.04'
T = 658.68'
L = 1,300.00'
E = 65.60'
TS STA. 17+89.74
SC STA. 19+14.74
θs = 1° 05' 37"
Ls = 125.00'
Ts = 786.51'
LT = 83.33'
ST = 41.67'
CS Sta. 32+14.74
ST Sta. 33+39.74

CURVE DATA
S.R. 7
CURVE NO. 5
P.I. STA. 261+89.75
Δ = 58° 46' 06" (RT)
Dc = 3° 15' 00"
R = 1,762.95'
T = 773.76'
L = 1,458.26'
E = 162.33'
TS STA. 250+20.45
SC STA. 253+70.45
θs = 5° 41' 15"
Ls = 350.00'
Ts = 1,169.30'
LT = 233.45'
ST = 116.78'
CS STA. 268+28.71
ST STA. 271+78.71

LEGEND

- *TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY*
- *TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY*
- *TREE CLEARING AREA - C CLEAR AND GRUB*
- *DO NOT DISTURB AREA (DND)*
- *2001 NEPA BOUNDARY*
- *RO-## - POTENTIAL BAT HABITAT*

HORIZONTAL SCALE IN FEET
0 25 50 100

P.I.D. NO. 120720
R/W DESIGNER TDW
R/W REVIEWER JDH

PLAN - S.R. 7
STA. 266+99.95 TO STA. 277+37.12 (NORTH)

LAW-7-2.17
TREE CLEARING

22Q
1247

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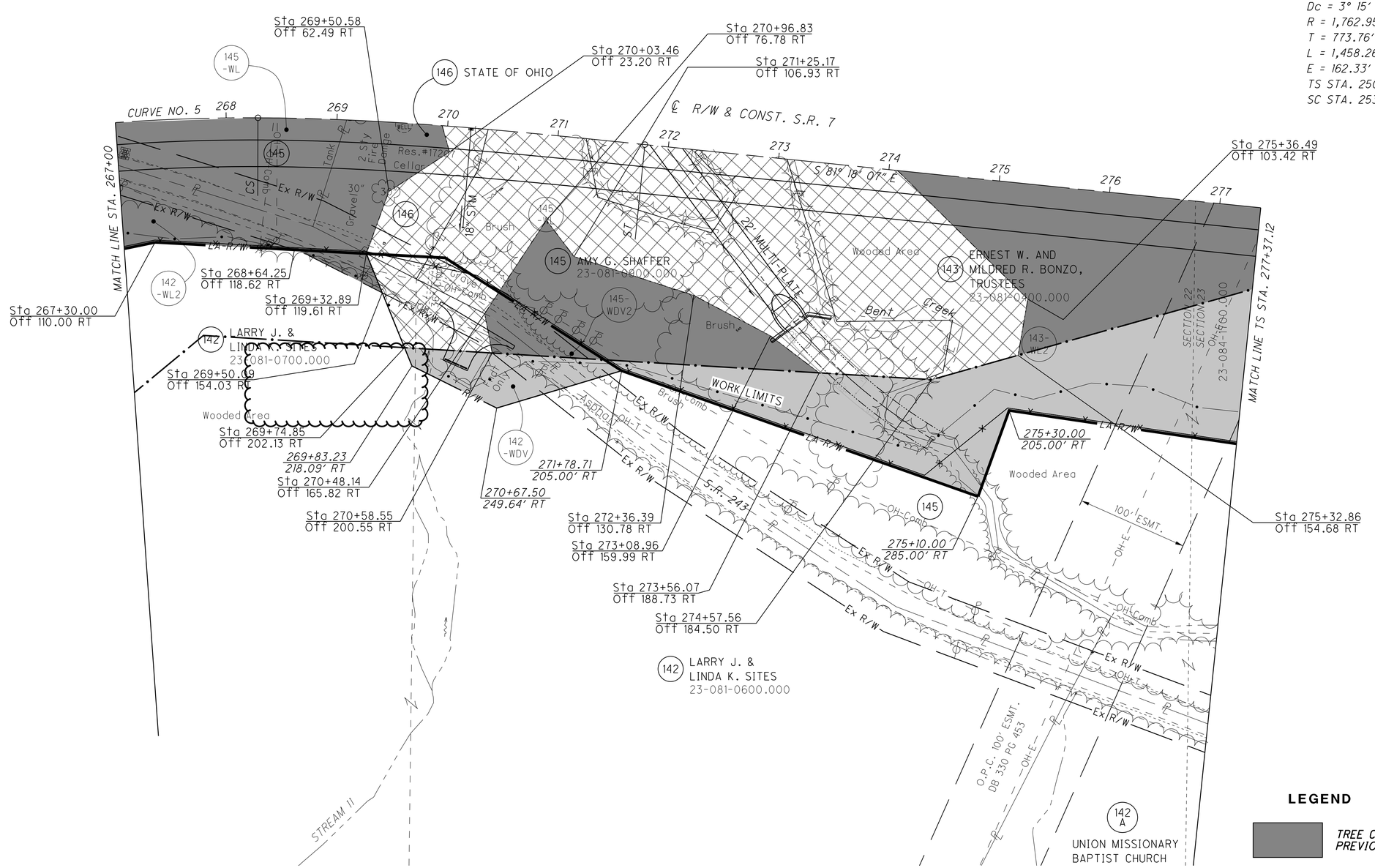
LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 22 & 23, T-1-N, R-16-W

CURVE DATA
S.R. 7
CURVE NO. 5

P.I. STA. 261+89.75	*θs = 5° 41′ 15″*
Δ = 58° 46′ 06″ (RT)	*Ls = 350.00′*
Dc = 3° 15′ 00″	*Ts = 1,169.30′*
R = 1,762.95′	*LT = 233.45′*
T = 773.76′	*ST = 116.78′*
L = 1,458.26′	*CS STA. 268+28.71*
E = 162.33′	*ST STA. 271+78.71*
TS STA. 250+20.45	
SC STA. 253+70.45	

HORIZONTAL SCALE IN FEET
0 25 50 100



LEGEND

- *TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY*
- *TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY*
- *TREE CLEARING AREA - C CLEARING AND GRUBBING*
- *DO NOT DISTURB AREA (DND)*
- *2001 NEPA BOUNDARY*
- *RO-## - POTENTIAL BAT HABITAT*

PID NO. 120720
R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING

TREE CLEARING PLAN - S.R. 7
STA. 267+00 TO STA. 277+37.12 (SOUTH)

22R
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 14 & 23, T-1-N, R-16-W

143 ERNEST W. AND MILDRED R. BONZO, TRUSTEES
147 CHARLES MAYENSCHEIN AND NORMA MAYENSCHEIN
148 WILLIAM W. ELDER, JR. & BETTY T. ELDER
149 FRED HAYES
150 MARY MASSIE
153 ROMAINE A. MARTING
155 ERNEST W. AND MILDRED R. BONZO, TRUSTEES
157 MICHAEL J. RILEY

CURVE DATA
C.R. 69
CURVE NO. 4

P.I. STA. 42+81.74
Δ = 4° 32′ 03″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 453.67′
L = 906.86′
E = 8.98′
e_{max} = 1.60%
PC STA. 38+28.07
PT STA. 47+34.93

CURVE DATA
C.R. 2
CURVE NO. 1

P.I. Sta. 10+85.37
Δ = 42° 28′ 52″ (LT)
Dc = 38° 11′ 49″
R = 150.00′
T = 58.30′
L = 111.21′
E = 10.93′
PC Sta. 10+27.07
PCC Sta. 11+38.28

CURVE DATA
C.R. 2
CURVE NO. 2

P.I. Sta. 12+19.19
Δ = 35° 52′ 10″ (LT)
Dc = 22° 55′ 06″
R = 250.00′
T = 80.91′
L = 156.51′
E = 12.77′
PCC Sta. 11+38.28
PT Sta. 12+94.79

CURVE DATA
C.R. 69
CURVE NO. 4

P.I. STA. 42+81.74
Δ = 4° 32′ 03″ (LT)
Dc = 0° 30′ 00″
R = 11,459.16′
T = 453.67′
L = 906.86′
E = 8.98′
PC STA. 38+28.07
PT STA. 47+34.93

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

CURVE DATA
S.R. 7
CURVE NO. 6

P.I. STA. 280+92.68
Δ = 5° 51′ 21″ (RT)
Dc = 1° 00′ 00″
R = 5,729.58′
T = 230.42′
L = 460.59′
E = 4.63′
TS STA. 277+37.12
SC STA. 278+62.12
θs = 0° 37′ 30″
Ls = 125.00′
Ts = 355.56′
LT = 83.33′
ST = 41.67′
CS STA. 283+22.71
ST STA. 284+47.71

CAUTION: APPROX. LOCATION OF ABANDONED NATURAL GAS WELL. API WELL NUMBER 34087600970000. LOCATION REPORTED AT 38.457105, -82.408853. PLUGGED AND ABANDONED 1952. SEE SPECIAL PROVISION.

S.R. 7
STA. 279+28.74, 176.90′ LT.
= C.R. 2 STA. 10+07.28
= C.R. 69 STA. 38+50.00

℄ R/W & CONST. S.R. 7
SEE SHEET - 22T

156 CARL & FAYE MAYENSCHEIN
23-038-1000.001

151 ERNEST W. AND MILDRED R. BONZO, TRUSTEES
23-037-0400.000

23-037-0801.000
23-089-1100.000
23-089-1000.000
23-085-0200.000

Sta 278+23.40 / 439.44′ LT
Sta 278+41.32 Off 400.79 LT
Sta 279+24.43 / 476.00′ LT
Sta 279+21.78 Off 436.87 LT
Sta 279+66.71 Off 451.38 LT
Sta 278+22.57 Off 356.37 LT
Sta 277+88.76 Off 163.66 LT
Sta 277+86.95 Off 153.03 LT
Sta 277+63.38 Off 13.48 LT
Sta 278+78.80 Off 148.30 LT
Sta 279+93.24 Off 139.84 LT
Sta 280+94.05 Off 59.43 LT
Sta 281+08.57 Off 57.26 LT
Sta 281+03.39 Off 167.38 LT
Sta 282+78.26 Off 160.38 LT
Sta 282+79.41 Off 28.76 LT
Sta 282+97.94 Off 16.65 LT
Sta 282+51.85 Off 271.20 LT
Sta 286+56.19 Off 342.31 LT
Sta 290+75.35 Off 310.55 LT
Sta 290+77.25 Off 287.14 LT
Sta 290+55.34 Off 107.74 LT

MATCH LINE TS STA. 277+37.12
MATCH LINE STA. 291+00

STREAM 12
RO-04
20′ INGRESS/EGRESS ESMT. DB. 391, PG. 324

Bear Creek
282 Private Dr
1001 ESMT.
O.P.C. 100′ ESMT. DB 330 PG 457
1 Sty Frm Res. #71
Pool
Carg
Shed
Gravel
Conc.
(3) 8″ pipe
8″ STL
6″ Drain
Brush
Wooded Area
Mowed Area
Bldg. Foundation
Field Dr.
Tree Hse
Shop
Play Center
Deck
Mtl Bldg
Mtl Garg
Walk
Arbor
Tank
Container
Gravel
Brush
FUTURE LANES
WORK LIMITS
BEGIN WORK C.R. 2 STA. 10+18.42
CURVE NO. 1
CURVE NO. 2
CURVE NO. 4
CURVE NO. 6
℄ R/W & CONST. C.R. 2
℄ R/W & CONST. C.R. 69
Ex R/W
LA-R/W
R/W
N 70° 43′ 25″ W
S 82° 15′ 48″ E
S 86° 47′ 52″ E
S 87° 09′ 28″ E
SECTION 14
SECTION 23

N
HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 7
STA. 277+37.12 TO STA. 291+00 (NORTH)

22S
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 14 & 23, T-1-N, R-16-W

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

CURVE DATA
C.R. 69
CURVE NO. 5

P.I. STA. 56+05.43
Δ = 56° 46′ 59″ (RT)
Dc = 38° 11′ 50″
R = 150.00′
T = 81.08′
L = 148.66′
E = 20.51′
PC STA. 55+24.35
PT STA. 56+73.01

HORIZONTAL SCALE IN FEET
0 25 50 100

MATCH LINE STA. 291+00

157 MICHAEL J. RILEY
23-037-1300.000

Bear Creek

297+18.11
243.94′ LT

297+38.17
210.58′ LT

296+41.07
267.67′ LT

INDIAN GUYAN RD.

N 36° 25′ 09″ E
58.41′

155 ERNEST W. AND MILDRED R. BONZO, TRUSTEES
23-037-1400.000
8′ x 14′

END WORK
C.R. 69
STA. 56+73.01

299+95.47
183.92′ LT

298+00.00
193.18′ LT

301+79.92
153.15′ LT

301+82.23
175.06′ LT

Wetland

WORK LIMITS

CURVE NO. 5

S 86° 47′ 52″ E
291+53.10
30.96′ LT

℄ R/W & CONST. C.R. 69

SECTION 14
SECTION 23

C.R. 69

296+90.97
149.49′ LT

293+26.42
127.49′ LT

296+39.94
121.22′ LT

GUYAN-MCKINLEY SCHOOL RD.

299+81.78
116.48′ LT

300+23.93
11.48′ RT

FUTURE LANES

15″ STM

℄ R/W & CONST. S.R. 7

291+40.55
8.85′ RT

23-085-0200.000

292+91.60
17.44′ LT

292+44.66
18.57′ RT

293+00.46
6.61′ RT

292+61.32
36.09′ RT

298+64.16
1.15′ LT

303+48.69
49.91′ RT

S 87° 09′ 28″ E

299+70.22
132.94′ RT

Open Field

Wooded Area

293+11.63
72.30′ RT

296+35.68
146.47′ RT

ERNEST W. AND MILDRED R. BONZO, TRUSTEES
23-085-0200.000

297+87.15
117.68′ RT

295+66.80
199.73′ RT

Dirt & Gravel

300+98.68
119.92′ RT

T.R. 164

301+60.00
190.00′ RT

300+90.00
110.00′ RT

Guyan

Indian

Field Dr.

291+50.10
291.25′ RT

ERNEST W. AND MILDRED R. BONZO, TRUSTEES
23-085-0100.000

MATCH LINE STA. 304+00

R/W DESIGNER	TDW
R/W REVIEWER	JDH
PID NO.	120720

TREE CLEARING PLAN - S.R. 7
STA. 291+00 TO STA. 304+00

LAW-7-2.17
TREE CLEARING

22U
1247

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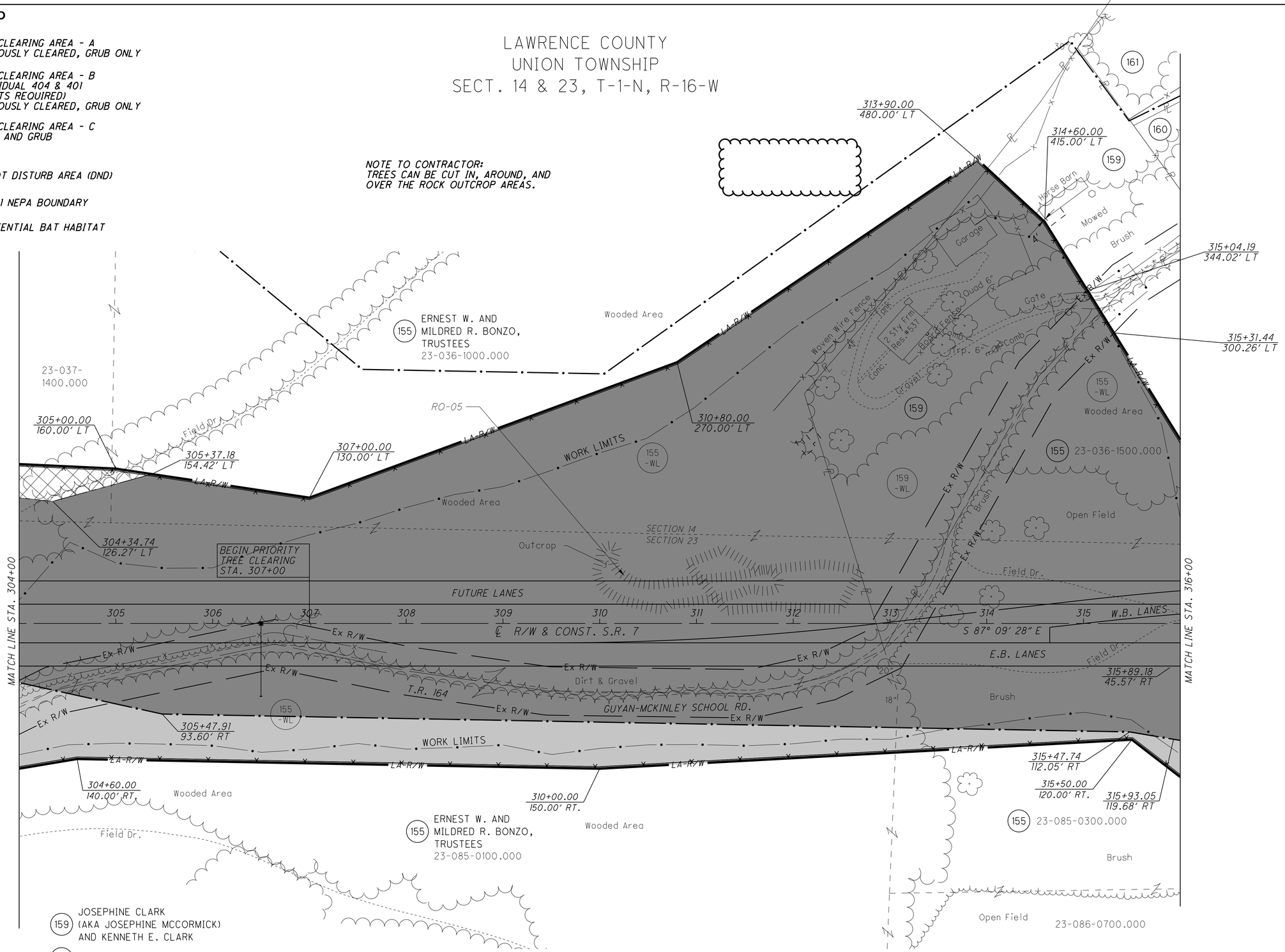
LEGEND

- TREE CLEARING AREA - A
  PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B
  (INDIVIDUAL 404 & 401
  PERMITS REQUIRED)
  PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C
  CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 14 & 23, T-1-N, R-16-W

NOTE TO CONTRACTOR:
TREES CAN BE CUT IN, AROUND, AND
OVER THE ROCK OUTCROP AREAS.



FOR LOCATION AND TYPE OF LA-R/W FENCE
SEE THE TABLE IN THE ROADWAY PLAN

HORIZONTAL SCALE IN FEET
0 25 50 100

P.I.D. NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

TREE CLEARING PLAN - S.R. 7
STA. 304+00 TO STA. 316+00

LAW-7-2.17
TREE CLEARING

22V
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 14 & 23, T-1-N, R-16-W

160 A. JOSEPHINE McCORMICK

161 KEVIN L. & SHERRI L. SALYER

NOTE TO CONTRACTOR:
TREES CAN BE CUT IN, AROUND, AND OVER THE ROCK OUTCROP AREAS.

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

CURVE DATA
S.R. 7
CURVE NO. 7

P.I. STA. 326+36.08
Δ = 31° 21′ 41″ (RT)
Dc = 2° 00′ 00″
R = 2,864.79′
T = 670.91′
L = 1,318.07′
E = 77.51′
TS STA. 317+06.62
SC STA. 319+56.62
θs = 2° 30′ 00″
Ls = 250.00′
Ts = 929.46′
LT = 166.68′
ST = 83.35′
CS STA. 332+74.69
ST STA. 335+24.69

HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 7
STA. 316+00 TO STA. 327+00

22W
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 24, T-1-N, R-16-W

℄ R/W & CONST. S.R. 7
SEE SHEET - 22BB

MATCH LINE STA. 364+00

MATCH LINE TS STA. 376+18.38

365 366 367 368 369 370 371 372 373 374 375 376

S 65° 44' 01" E

E.B. LANES

RAMP 1

STREAM 16A1

STREAM 16

Wooded Area

WORK LIMITS

LA-R/W

364+23.43
179.99' RT

369+50.00
140.00' RT

369+93.89
153.23' RT

369+97.12
142.52' RT

371+48.00
165.87' RT

371+97.91
170.99' RT

372+46.60
179.81' RT

372+90.60
195.69' RT

373+60.51
243.41' RT

374+62.84
272.38' RT

375+05.38
298.22' RT

375+57.58
319.28' RT

DND

167-E (L.L.)

167 ERNEST W. AND MILDRED R. BONZO, TRUSTEES
25-064-1400.000

168 RILEY DEVELOPMENT COMPANY, INC.
25-064-1401.000

167 ERNEST W. AND MILDRED R. BONZO, TRUSTEES
25-064-1500.000

Stone Dr.

169

Water Tank

18" W

6" W

170

171 PATRICIA BURD

Brush

168 RILEY DEVELOPMENT COMPANY, INC.
25-064-1501.000

LOT 1

LOT 3

LOT 5

LOT 7

LOT 9

LOT 11

LOT 13

LOT 2

LOT 4

1 Sty Brk

Conc

Asphalt

Outcrop

Vacant Lots

HARBOR VIEW SUBDIVISION (UNRECORDED PLAT)

PRIVATE DR. 574

HARBOR VIEW DR.

CTV

Pool

1 Sty Brk
Res. #178

169 THE HECLA WATER ASSOCIATION, INC.

170 THE HECLA WATER ASSOCIATION

LEGEND

- TREE CLEARING AREA - A
  PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B
  (INDIVIDUAL 404 & 401 PERMITS REQUIRED)
  PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - C
  CLEAR AND GRUB
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

N

0 25 50 100
HORIZONTAL SCALE IN FEET

P.I.D. NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 7
STA. 364+00 TO STA. 376+18.38 (SOUTH)
TREE CLEARING

22CC
1247

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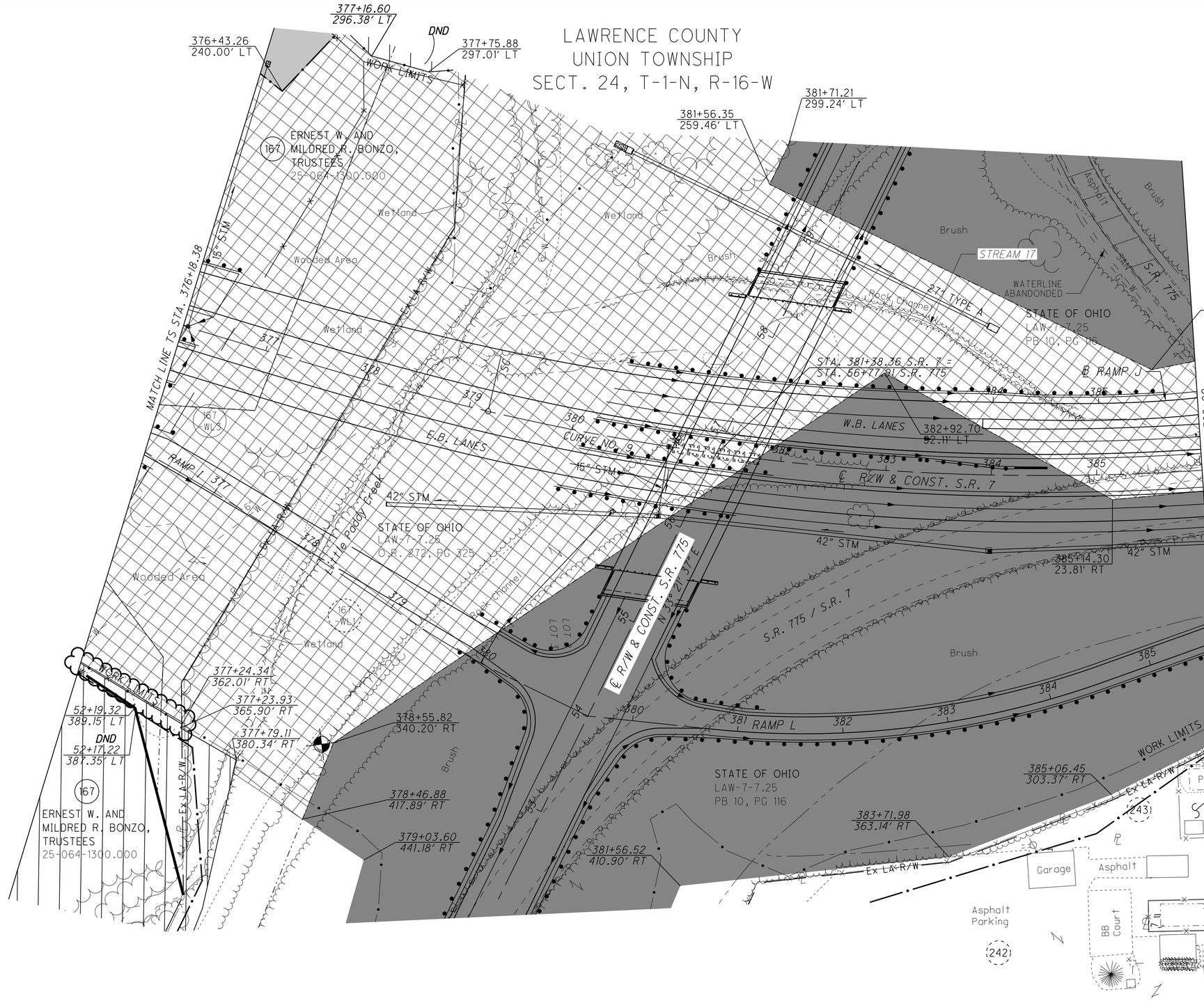
LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 24, T-1-N, R-16-W



CURVE DATA
S.R. 7
CURVE NO. 9

P.I. STA. 387+47.15	*θs = 3° 44' 12"*
Δ = 46° 04' 34" (LT)	*Ls = 300.00'*
Dc = 2° 29' 28"	*Ts = 1,128.77'*
R = 2,300.00'	*LT = 200.04'*
T = 805.51'	*ST = 100.04'*
L = 1,549.62'	*CS STA. 394+68.00*
E = 136.98'	*ST STA. 397+68.00*
TS STA. 376+18.38	
SC STA. 379+18.38	

LEGEND

- *TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY*
- *TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY*
- *TREE CLEARING AREA - C CLEAR AND GRUB*
- *DO NOT DISTURB AREA (DND)*
- *2001 NEPA BOUNDARY*
- *RO-## - POTENTIAL BAT HABITAT*

HORIZONTAL SCALE IN FEET
0 25 50 100

P.I.D. NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

TREE CLEARING PLAN - S.R. 7
STA. 376+18.38 TO STA. 386+00

LAW-7-2.17
TREE CLEARING

22DD
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 15 & 22, T-1-N, R-16-W

(125) LARRY J. SITES, II, ETAL.
(126) STATE OF OHIO
(128) LAWRENCE A. & INEZ M. THOMPSON
(131) STATE OF OHIO
(132) STATE OF OHIO
(135) ROGER & HELEN HENSON

(I-TR) 251+84.51 60.55' RT

CURVE DATA C.R. 69 CURVE NO. 1
P.I. Sta. 10+33.80
Δ = 20° 52' 36" (RT)
Dc = 24° 54' 40"
R = 230.00'
T = 42.37'
L = 83.80'
E = 3.87'
PC STA. 9+91.43
PT STA. 10+75.23

CURVE DATA C.R. 69 CURVE NO. 2
P.I. Sta. 15+77.89
Δ = 10° 17' 44" (LT)
Dc = 4° 00' 00"
R = 1,432.39'
T = 129.04'
L = 257.39'
E = 5.80'
PC STA. 14+48.85
PT STA. 17+06.24

CURVE DATA S.R. 243 CURVE NO. 1
P.I. Sta. 11+06.30
Δ = 22° 39' 36" (RT)
Dc = 24° 54' 40"
R = 230.00'
T = 46.08'
L = 90.96'
E = 4.57'
PC STA. 10+60.22
PT STA. 11+51.18

CURVE DATA S.R. 243 CURVE NO. 2
P.I. STA. 15+51.11
Δ = 5° 37' 36" (LT)
Dc = 1° 30' 00"
R = 3,819.72'
T = 137.62'
L = 275.13'
E = 2.48'
TS STA. 13+13.39
SC STA. 14+13.39
θs = 00° 45' 00"
Ls = 100.00'
Ts = 237.72'
LT = 66.67'
ST = 33.33'
CS Sta. 16+88.52
ST Sta. 17+88.52

HORIZONTAL SCALE IN FEET
0 25 50 100

MATCH LINE
250+43.47 114.87' LT
250+63.26 139.46' LT
250+88.97 171.76' LT
251+07.69 195.60' LT
251+37.73 60.61' LT
STA. 251+92.69 S.R. 7 = STA. 9+56.00 S.R. 243 BEGIN WORK S.R. 243
251+84.51 60.55' RT
I-TR
252+61.40 136.02' RT
252+87.36 22.98' RT
253+27.64 265.95' LT
254+01.08 156.13' LT
254+07.00 147.90' LT
254+84.04 36.05' LT
255+26.15 33.50' LT
256+32.85 114.64' LT
17+58.80 148.02' LT
17+56.98 139.82' LT
STA. 14+80.03 S.R. 243 = STA. 9+68.37 C.R. 69 BEGIN WORK C.R. 69
19+03.49 152.30' LT
19+26.07 125.13' LT
20+50.00 140.00' LT
20+56.80 83.29' RT
21+70.00 50.00' RT
16+35.00 120.34' RT
16+88.51 85.00' RT
16+25.00 108.54' RT
11+20.46 91.56' LT
17+37.47 89.43' RT
17+88.51 70.48' RT
18+27.03 125.00' RT
18+92.33 99.22' RT
19+75.00 130.00' RT
20+62.75 115.00' RT
12+56.23 271.41' LT

(127) STATE OF OHIO 23-082-0100.000
(124) HARRY L. RADER 23-043-1401.000
23-043-1400.000
23-043-1402.000
23-081-1500.000
23-081-1800.000
23-081-1700.000
23-080-1100.000
(130) HARRY L. RADER
LAURA A. PRITCHARD 23-044-0700.000
ERNEST W. & MILDRED R. BONZO, TRUSTEES
WINTER HEIGHTS PB 6C PG 285
B.R.E.C. DB 516, PG 298
INGRESS/EGRESS D.B. 399, PG. 343

END ACQUISITION S.R. 243 STA. 21+70.00
END WORK S.R. 243 STA. 21+54.00
WORK LIMITS

CURVE NO. 1 Rt
CURVE NO. 2 Rt
CURVE NO. 1
CURVE NO. 2
PC
PT
CS
SC
N 48° 41' 34" W
N 26° 01' 58" W
N 62° 13' 05" E
N 31° 39' 34" W
N 85° 05' 41" E

℄ R/W & CONST. S.R. 243
℄ R/W & CONST. S.R. 7
℄ R/W & CONST. C.R. 69
℄ R/W & CONST. S.R. 243

Wooded Area
Brush
Stone
Rock Bed
Metal Bldg. Auto Repair
Asphalt
Gravel
Concrete
Trail
Pasture
Elec. Fence
Split Rail
Deck
Shed
Outcrop
Stockade Fence
Flag
Sat Dish
Field Dr.
SITES DR.
S.R. 243

1 Sty Frm Res. #864
1 Sty Brk Res. #16804
1 Sty Frm & Block Res. #16767
1 Sty Res. Vacant
2 Sty Res. Vacant

21" STM
30" STM
24" cmp
18" CRP
42" TYPE A
16" W
8" W
12" ST
24" ST
OH-T
OH-E
OH-Comb
L-HO
TMP
Ex R/W
R/W
W.M.

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- DO NOT DISTURB AREA (DND)
- TREE CLEARING AREA - C CLEAR AND GRUB
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

CURVE DATA S.R. 7 CURVE NO. 5
P.I. STA. 261+89.75
Δ = 58° 46' 06" (RT)
Dc = 3° 15' 00"
R = 1,762.95'
T = 773.76'
L = 1,458.26'
E = 162.33'
TS STA. 250+20.45
SC STA. 253+70.45
θs = 5° 41' 15"
Ls = 350.00'
Ts = 1,169.30'
LT = 233.45'
ST = 116.78'
CS STA. 268+28.71
ST STA. 271+78.71

R/W DESIGNER TDW
R/W REVIEWER JDH
PID NO. 120720

TREE CLEARING PLANS - S.R. 243
LAW-7-2.17
TREE CLEARING
S.R. 243

22HH
1247

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CURVE DATA
S.R. 7
CURVE NO. 9

P.I. STA. 387+47.15
Δ = 46° 04′ 34″ (LT)
Dc = 2° 29′ 28″
R = 2,300.00′
T = 805.51′
L = 1,549.62′
E = 136.98′
TS STA. 376+18.38
SC STA. 379+18.38

θs = 3° 44′ 12″
Ls = 300.00′
Ts = 1,128.77′
LT = 200.04′
ST = 100.04′
CS STA. 394+68.00
ST STA. 397+68.00

LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 24, T-1-N, R-16-W

MATCH LINE STA. 376+18.38

58+85.12
495.45′ LT

58+05.96
520.37′ LT

15" STM

(167) ERNEST W. AND MILDRED R. BONZO, TRUSTEES
25-064-1300.000

58+73.13
458.83′ LT

58+76.31
441.53′ LT

58+83.26
403.74′ LT

58+97.45
379.30′ LT

55+22.53
410.71′ LT

Wooded Area

Wetland

WORK LIMITS

Ex LA-R/W

377 W.B. LANES

378

379

380

381 B RAMP L

382

383 ℄ R/W & CONST. S.R. 7

384

E.B. LANES

45 STM

36" STM

CURVE NO. 9

LOT 3
LOT 2

MATCH LINE STA. 59+00.00

DND

(167) ERNEST W. AND MILDRED R. BONZO, TRUSTEES
25-064-1300.000

52+17.22
387.35′ LT

52+27.12
365.52′ LT

52+09.56
323.64′ LT

52+04.71
278.59′ LT

52+74.47
386.05′ LT

52+25.10
342.19′ LT

52+21.19
341.98′ LT

52+15.16
281.53′ LT

Wetland

Wooded Area

Creek

Little Paddy

Ex LA-R/W

STATE OF OHIO
(167-WL1)
LAW-T-T.25
O.R. 272, PG 325

51+94.17
200.14′ LT

51+84.88
130.97′ LT

52+72.32
205.55′ LT

BEGIN ACQUISITION
S.R. 775
STA. 508+80.00

Brush

Rock Protection

45+30.85
70.01′ LT

46+99.70
61.97′ LT

48+47.84
71.12′ LT

℄ R/W & CONST. S.R. 775

WORK LIMITS

46 47 48 49 50 51 52 53 54 55 56 58

N 33° 21′ 37″ E

47+49.09
61.42′ RT

(167-WL1) STATE OF OHIO
LAW-7-7.25
O.R. 272, PG 325

45+30.85
63.93′ RT

BEGIN WORK
S.R. 775
STA. 45+30.85

46+13.91
164.10′ RT

50+66.91
146.96′ RT

52+00.04
154.55′ RT

52+94.62
149.39′ RT

58+16.59
110.06′ RT

STATE OF OHIO
LAW-7-7.25
PB 10, PG 116

EX. S.R. 775 / S.R. 7

42" STM

℄ R/W & CONST. S.R. 7

Rock Protection

46+42.63
232.88′ RT

24" stm

Ex LA-R/W

45+30.85
240.01′ RT

Asphalt Parking

Wooded Area

FAIRVIEW SUBDIVISION
PB 4 PG 29

(242) ERNEST B. & CLORINDA G. HALL

LEGEND

- TREE CLEARING AREA - A
  PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B
  (INDIVIDUAL 404 & 401 PERMITS REQUIRED)
  PREVIOUSLY CLEARED, GRUB ONLY
- DO NOT DISTURB AREA (DND)
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT
- (A) STA. 381+38.36 S.R. 7 = STA. 56+77.91 S.R. 775
- TREE CLEARING AREA - C
  CLEAR AND GRUB

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING

TREE CLEARING PLAN - S.R. 775
S.R. 775 - STA. 45+30.85 TO STA. 59+00

2211
1247

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LAWRENCE COUNTY
UNION TOWNSHIP
SECT. 24, T-1-N, R-16-W

(B) NEAREST BUILDING CORNER DIMENSION TO LA-R/W LINE, MOBILE HOME = 2.7', GARAGE = 9.6'

59+63.97 408.23' LT
59+83.45 409.36' LT
61+04.74 319.97' LT
61+18.29 270.47' LT
61+36.42 270.68' LT
61+40.91 263.58' LT
61+77.18 207.05' LT
61+80.03 202.59' LT
62+00.19 193.46' LT
63+23.05 137.57' LT
63+91.57 99.25' LT
64+08.14 90.22' LT
64+32.25 87.92' LT
65+00.55 76.92' LT
65+13.08 84.85' LT
65+61.85 29.00' LT
66+44.26 107.89' LT
66+63.97 69.94' LT
67+80.00 60.00' LT
68+18.80 93.26' LT
68+26.74 70.02' LT
68+50.00 75.00' LT
69+40.00 110.00' LT
69+40.00 55.28' LT
69+99.55 54.45' LT
69+98.97 34.46' LT
END WORK S.R. 775 STA. 70+45.38
70+82.15 31.35' LT
70+80.68 28.40' RT
69+10.00 70.00' RT
END ACQUISITION S.R. 775 STA. 70+60.00
60+58.08 221.94' LT
60+41.82 198.52' LT
60+97.56 191.14' LT
60+97.76 186.18' LT
61+64.61 152.56' LT
61+37.49 60.61' LT
59+29.31 66.37' LT
60+33.36 67.80' LT
62+07.50 125.51' LT
62+02.29 70.97' LT
61+81.00 40.68' LT
63+52.43 184.08' RT
65+50.01 149.10' RT
65+97.62 60.65' RT
STA. 56+77.91 S.R. 775 = STA. 381+38.36 RAMP K

STATE OF OHIO
LAW-7-7.25
PB 10, PG 116

STATE OF OHIO
LAW-7-7.25
O.R. 156, PG 198

Wooded Area
Wetland
Brush
Gravel
Trail
Fence
Wire Fence
Stockade Fence
Wood Posts
Ditch
Creek
Little Paddy Creek
Cemetery
Concrete
Asphalt
Cinder Pile
Salt Bin
Frame Garage
Mobile Home
Porch
Deck
Pen
Res.
Sign
Shed
Shelter House
Conc.
Gravel
Field Dr.
Ex R/W
Ex LA-R/W
LA-R/W
WORK LIMITS
℄ R/W & CONST. S.R. 775
℄ CONST. RAMP J & K
℄ RAMP K
℄ RAMP J
MATCH LINE STA. 59+00.00
N 33° 21' 37" E
N 34° 05' 09" E
N 1° 39' 23" E
WATERLINE ABANDONDED
END WATERLINE
4" FORCE MAIN
6" SAN
4" SAN
8" SAN
12" SAN
24" cpp
OHP
OHF
OHE
OHV
TMP
PI
PC
PT
Res. #959
Res. #929
Res. #938
Res. #969
1 Sty Frm
1 Sty Brick
1 Sty Cellar
1 Sty Garage
2 Sty Frm
O.D.O.T. Garage
MT. PISGAH CHURCH
LOT 2
LOT 1
N 1/2 SEC. 24
S 1/2 SEC. 24

CURVE DATA
S.R. 775
P.I. STA. 70+19.99
Δ = 32° 25' 07" (LT)
Dc = 11° 50' 00"
R = 484.19'
T = 140.76'
L = 273.96'
E = 20.04'
PC STA. = 68+79.23
PT STA. = 71+53.19

P.I. STA. 66+62.11
Δ = 0° 43' 32" (RT)
NO CURVE

(167) ERNEST W. AND MILDRED R. BONZO, TRUSTEES
(252) STATE OF OHIO
(255) STATE OF OHIO
(256) MANFORD KING
(257) STATE OF OHIO
(258) TERRY J. & KAY L. HOLLAND
(258A) HELEN KATHLEEN SPEARS
(258B) BURNIE E. WATSON
(260) HELENA HAMMONS
(261) GERTRUDE SCARBERRY
(300) MT. PISGAH CHURCH
(A) Conc. Walk & Pipe Handrails

LEGEND

- TREE CLEARING AREA - A PREVIOUSLY CLEARED, GRUB ONLY
- TREE CLEARING AREA - B (INDIVIDUAL 404 & 401 PERMITS REQUIRED) PREVIOUSLY CLEARED, GRUB ONLY
- DO NOT DISTURB AREA (DND)
- TREE CLEARING AREA - C CLEAR AND GRUB
- 2001 NEPA BOUNDARY
- RO-## - POTENTIAL BAT HABITAT

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 120720

R/W DESIGNER TDW
R/W REVIEWER JDH

LAW-7-2.17
TREE CLEARING PLAN - S.R. 775
S.R. 775 - STA. 59+00 TO STA. 70+45.38
TREE CLEARING

22JJ
1247

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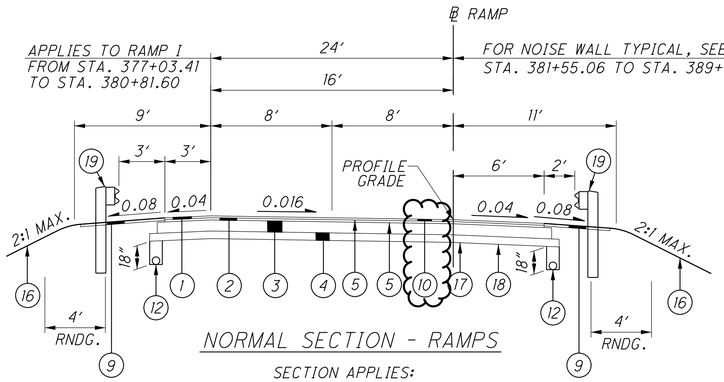
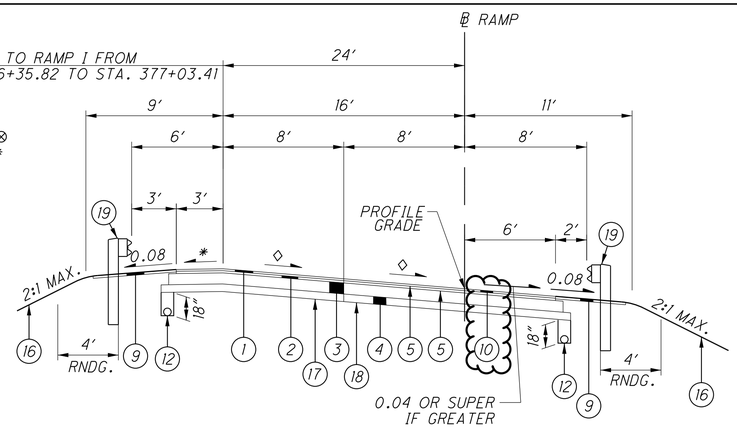


NORMAL SECTION - RAMPS

SECTION APPLIES:

RAMP D: STA. 119+84.99 TO STA. 120+82.54
RAMP I: STA. 377+03.41 TO STA. 380+81.60
RAMP L: STA. 384+30.86 TO STA. 389+81.39
BALLOON 10 APPLIES TO RAMP I ONLY. SEE PAVEMENT CALCULATIONS FOR ADDITIONAL DETAILS.

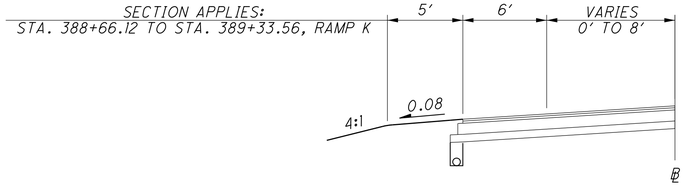
◇ - 0.073 MAX. □
0.0353 MAX. ⊗⊗
0.046 MAX. **

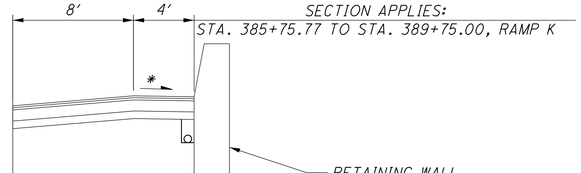


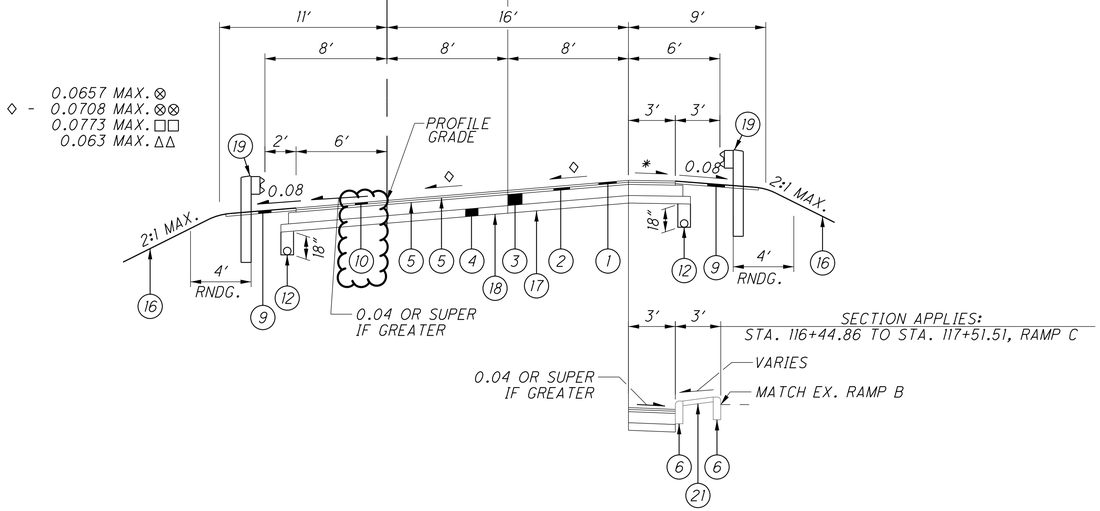
SUPERELEVATED SECTION - RAMPS

SECTION APPLIES:

□ RAMP D: STA. 115+19.00 TO STA. 119+84.99 +
⊗⊗ RAMP I: STA. 377+63.81 TO STA. 377+03.41
** RAMP L: STA. 389+82.28 TO STA. 384+30.86
BALLOON 10 APPLIES TO RAMP I ONLY. SEE PAVEMENT CALCULATIONS FOR ADDITIONAL DETAILS.



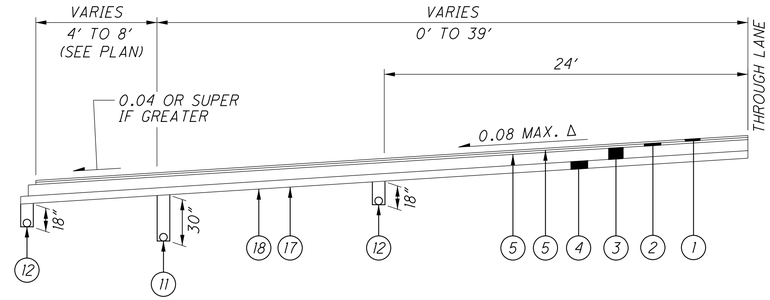




SUPERELEVATED SECTION - RAMPS

SECTION APPLIES:

⊗ RAMP C: STA. 116+33.24 TO STA. 118+16.48 +
⊗⊗ RAMP C: STA. 118+16.48 TO STA. 123+68.17
□□ RAMP J: STA. 387+15.12 TO STA. 391+15.81
ΔΔ RAMP K: STA. 385+66.12 TO STA. 387+51.56
BALLOON 10 APPLIES TO RAMP J ONLY. SEE PAVEMENT CALCULATIONS FOR ADDITIONAL DETAILS.



SPEED LANE CHANGE

SECTION APPLIES:

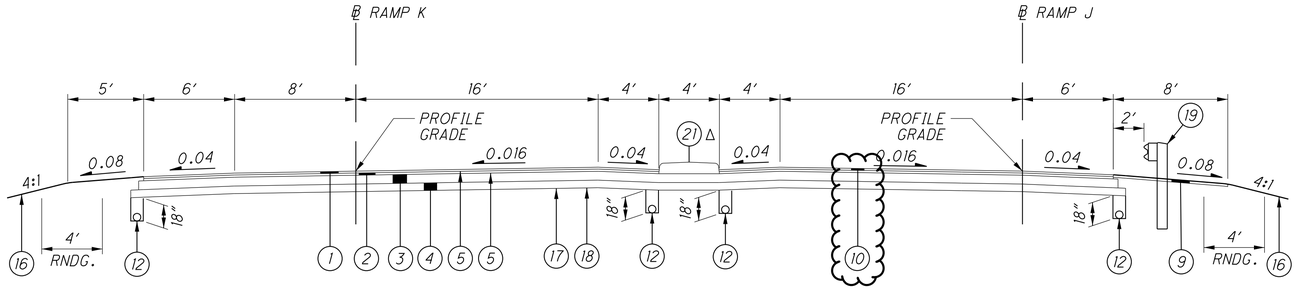
STA. 126+47.37 TO STA. 132+00.00

NOTES:

PROFILE GRADE ON RIGHT SIDE OF DIRECTION OF TRAVEL
\+ SUPERELEVATION TO BE OPPOSITE HAND TO TYPICAL SHOWN
FOR LEGEND, SEE SHEET 23
FOR DITCH DETAILS, SEE SHEET 32
FOR EDGE COURSE DETAILS, SEE SHEET 33
* FOR SUPERELEVATED SHOULDER DETAILS, SEE DETAIL A, SHEET 33
FOR EXACT LOCATION OF UNDERDRAINS, SEE UNDERDRAIN TABLE SHEETS 674-678
Δ DENOTES MAXIMUM FOR ENTIRE PROJECT, FOR SPECIFIC CURVE SUPERELEVATION, SEE PLANS

TYPICAL SECTIONS - RAMPS

LAW-7-2.17

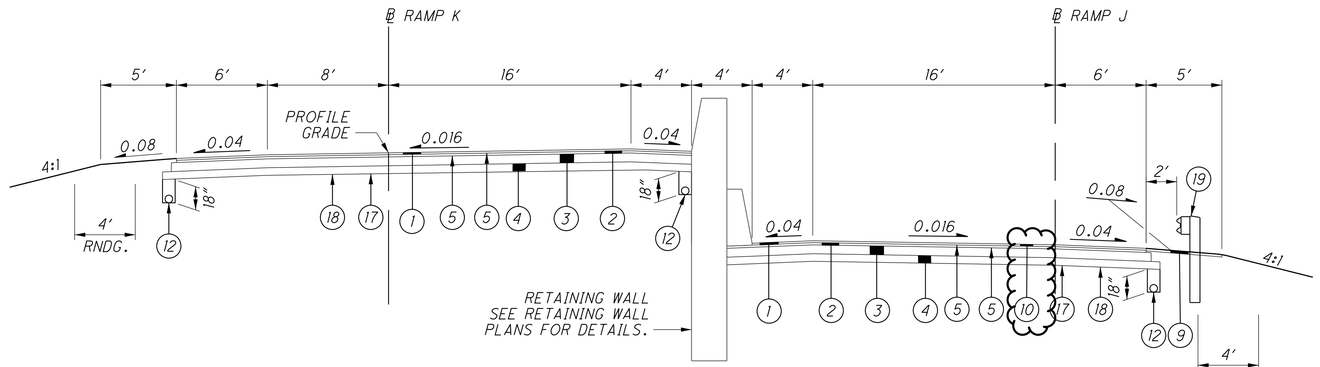


NORMAL SECTION - RAMPS J & K CONCRETE MEDIAN

SECTION APPLIES:

STA. 384+99.45 TO STA. 385+66.77
& STA. 385+48.90 TO STA. 385+66.77

BALLOON 10 APPLIES TO RAMP J ONLY. SEE PAVEMENT CALCULATIONS FOR ADDITIONAL DETAILS.

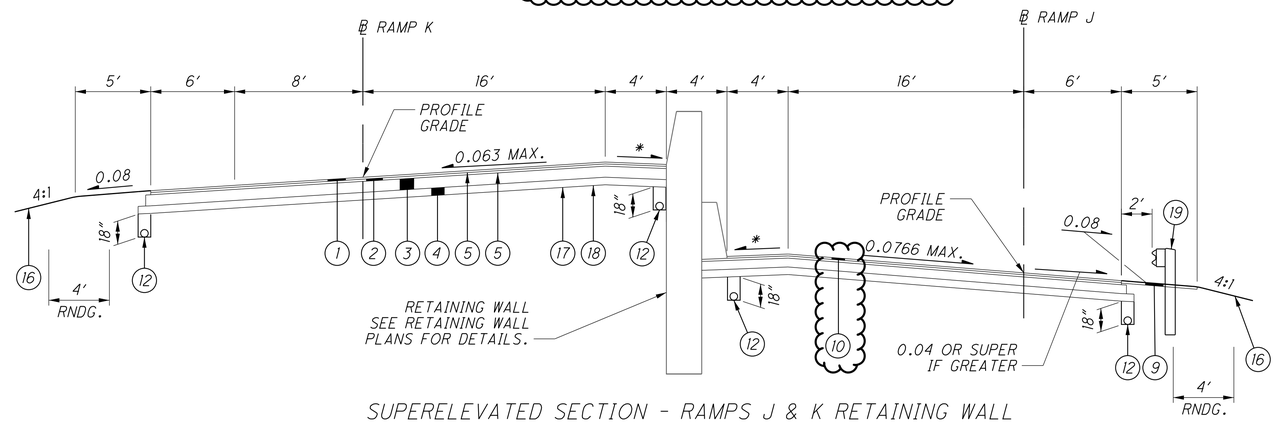


NORMAL SECTION - RAMPS

SECTION APPLIES:

STA. 385+66.77 TO STA. 387+65.84

BALLOON 10 APPLIES TO RAMP J ONLY. SEE PAVEMENT CALCULATIONS FOR ADDITIONAL DETAILS.



SUPERELEVATED SECTION - RAMPS J & K RETAINING WALL

SECTION APPLIES:

STA. 387+65.84 TO STA. 388+65.84

BALLOON 10 APPLIES TO RAMP J ONLY. SEE PAVEMENT CALCULATIONS FOR ADDITIONAL DETAILS.

NOTES:

+ SUPERELEVATION TO BE OPPOSITE HAND TO TYPICAL SHOWN
FOR LEGEND, SEE SHEET 23
FOR DITCH DETAILS, SEE SHEET 32
FOR EDGE COURSE DETAILS, SEE SHEET 33

* FOR SUPERELEVATED SHOULDER DETAILS, SEE DETAIL A, SHEET 33
FOR EXACT LOCATION OF UNDERDRAINS, SEE UNDERDRAIN TABLE SHEETS 674-678

TYPICAL SECTIONS - RAMPS

LAW-7-2.17

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN OR ADJACENT TO THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

FRONTIER COMMUNICATIONS
1315 ALBERT STREET
PORTSMOUTH, OHIO 45662
PHONE: (740) 354-0521
MS. DENA MARTIN

AMERICAN ELECTRIC POWER (DISTRIBUTION)
38831 STATE ROUTE 7
REEDSVILLE, OHIO 45772
PHONE: (740) 985-3054
MR. CLARKE SAUNDERS

AMERICAN ELECTRIC POWER (TRANSMISSION)
8600 SMITHS HILL ROAD
NEW ALBANY, OHIO 43054
PHONE: (380) 205-5072
MR. MICHAEL CARR

BUCKEYE RURAL ELECTRIC CO-OP, INC.
P.O. BOX 200
RIO GRANDE, OHIO 45674
PHONE: (740) 379-9659
MR. WESTON CLARY

HECLA WATER ASSOCIATION, INC.
3190 SR 141
IRONTON, OHIO 45638
PHONE: (740) 533-0526, EXT. 5
MR. TIM DALTON

AQUA OHIO (FORMERLY OHIO-AMERICAN WATER COMPANY)
5481 BUENOS ARIES BLVD.
WESTERVILLE, OHIO 43081
PHONE: (614) 882-6586, EXT. 50546
MR. VINNY LUPICA

COLUMBIA GAS OF OHIO
215 N. 7TH STREET
IRONTON, OHIO 45638
PHONE: (740) 513-8529
MS. TORI PIERCE

MYERS DRILLING COMPANY
826 20TH STREET
HUNTINGTON, WV. 25703-1850
PHONE: (304) 736-7431
MR. JOHN DIAL

ARMSTRONG CABLE SERVICES
9651 COUNTY ROAD 1
SOUTH POINT, OHIO 45680
PHONE: (740) 451-1827
MR. JARAN BARTOE

UNION-ROME TOWNSHIPS
SUBSEWER DISTRICT
5481 BUENOS ARIES BLVD.
WESTERVILLE, OHIO 43081
PHONE: (614) 882-6586, EXT. 50546
MR. VINNY LUPICA

CHARTER COMMUNICATIONS
(AKA SPECTRUM FKA TIME WARNER CABLE)
1617 FOXHAVEN DRIVE
RICHMOND, KENTUCKY 40475
PHONE: (859) 626-4829
MR. GREG RUSSELL

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 3 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: STATIC GPS (2011)
MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM:	NAVD88
GEOID:	GEOID09

HORIZONTAL POSITIONING

REFERENCE FRAME:	NAD83 (CORS 96)
ELLIPSOID:	GRS80
MAP PROJECTION:	LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM:	OHIO STATE PLANE, SOUTH ZONE
COMBINED SCALE FACTOR:	1.000044500000 (FROM GROUND TO SPC)
ORIGIN OF COORDINATE SYSTEM:	0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

WHERE CONSTRUCTION ACTIVITIES ARE WITHIN 500 FEET OF RESIDENTIAL AREAS, CONSTRUCTION ACTIVITIES WILL BE LIMITED TO DAYTIME HOURS ONLY. THE FOLLOWING AREAS GIVE LOCATIONS WHERE WORK SHALL BE LIMITED TO DAYTIME HOURS ONLY:

AREA 1: SR 7 STATION 165+00 TO STATION 220+00
AREA 2: SR 7 STATION 381+00 TO STATION 409+00
AREA 3: SR 775 STATION 45+30 TO STATION 70+75

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

NO WORK SHALL OCCUR IN THE DO NOT DISTURB AREAS AS SHOWN IN THE PLANS.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 144.23 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION SOUTHWEST REGIONAL OFFICE OBSTRUCTION EVALUATION GROUP 10101 HILLWOOD PARKWAY FORT WORTH, TX 76177 FAX: (817) 222-5920 HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF AVIATION 2829 WEST DUBLIN-GRANVILLE ROAD COLUMBUS, OHIO 43235 OHIO.AIRPORT.PROTECTION@DOT.OHIO.GOV

RIGHT-OF-WAY FENCE CONSTRUCTION

ALTHOUGH NOT SHOWN IN THE PLANS, THE CONTRACTOR HAS A 15' WORK AREA FOLLOWING ALONG AND INSIDE OF THE RIGHT-OF-WAY TO CONSTRUCT THE PROPOSED FENCE.

CLEARING AND GRUBBING

THE DEPARTMENT HAS AWARDED A SEPARATE CONTRACT (PID-120720) FOR TREE CLEARING ON A PORTION OF THE PROJECT. THE CONSTRUCTION PLANS FOR THAT CONTRACT ARE AVAILABLE AS A REFERENCE DOCUMENT ON THE DEPARTMENTS FTP SITE. THAT CONTRACT ONLY REQUIRED THE CUTTING AND REMOVAL OF TREES AND TREE TOPS FROM THE PROJECT LIMITS AND DID NOT REQUIRE GRUBBING OF STUMPS OR ROOTS.

THE LIMITS OF THAT CONTRACT WERE RESTRICTED BY A PRIOR 2001 NEPA FOOTPRINT, THEREFORE NOT ALL AREAS WITHIN THE CONSTRUCTION LIMITS WERE AVAILABLE TO RELEASE TO THAT CONTRACTOR.

THE TREE CLEARING CONTRACTOR WILL INSTALL SOIL AND EROSION BMP'S FOR THEIR WORK AND LEAVE THEM IN-PLACE FOR THIS CONTRACT TO USE. THIS CONTRACT SHALL ACCEPT THEM AS-IS.

DUE TO WATERWAY PERMITTING REQUIREMENTS, THE TREE CLEARING CONTRACTOR IS REQUIRED TO REMOVE TEMPORARY ACCESS FILLS AND CULVERTS THAT WERE INSTALLED FOR ANY TEMPORARY STREAM CROSSINGS, THEREFORE THIS CONTRACT SHOULD NOT ANTICIPATE THEM TO BE IN PLACE.

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN.

UNLESS OTHERWISE INCLUDED IN THE PLANS, THE CONTRACTOR SHALL REMOVE ANY EXISTING ORANGE PLASTIC CONSTRUCTION FENCE, FENCE, CULVERTS/DRIVE PIPES WITHIN THE WORK AREA. THESE ITEMS ARE TO BE REMOVED PER CMS 202. ALL COSTS ASSOCIATED WITH THIS WORK INCLUDING DISPOSAL SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN.

SEE ENVIRONMENTAL COMMITMENT PLAN NOTES ON SHEET 15 FOR TREE CLEARING RESTRICTION TIME FRAMES.

FOR INFORMATION ONLY:

THE FOLLOWING AREA IS TO BE CLEARED AND GRUBBED WITH THIS CONTRACT _____ 96.3 ACRES (AREAS SHOWN ON SHEETS 16-22 AND TREE CLEARING AREA C SHOWN ON SHEETS 22A-22JJ)

THE FOLLOWING AREA IS TO BE GRUBBED ONLY WITH THIS CONTRACT _____ 209.6 ACRES (TREE CLEARING AREAS A AND B SHOWN ON SHEETS 22A-22JJ)

ITEM SPECIAL - PIEZOMETER

INSTALL PIEZOMETERS AT SPECIFIED LOCATIONS TO MONITOR PORE WATER PRESSURES OF THE FOUNDATION SOILS PER THE GEOTECHNICAL DESIGN MANUAL (GDM) SECTION 502 (2024). INITIAL GROUNDWATER LEVELS SHOULD BE RECORDED PRIOR TO EMBANKMENT CONSTRUCTION. DURING EMBANKMENT CONSTRUCTION, IF ELEVATED GROUNDWATER LEVELS ARE OBSERVED, NO ADDITIONAL FILL SHOULD BE PLACED UNTIL WATER LEVELS RETURN TO PRE-EMBANKMENT ELEVATIONS.

ALL LABOR, EQUIPMENT AND MATERIALS NEEDED TO COMPLETE THE WORK, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM SPECIAL - PIEZOMETER.

THE FOLLOWING TABLE HAS IDENTIFIED THE LOCATIONS AND QUANTITIES WHERE THESE SHALL BE INSTALLED.

STATION	OFFSET (FT)	ELEVATION OF PIEZOMETER TIP	ITEM 203 SPECIAL -PIEZOMETER (EACH)
136+00	60 LEFT	520	1
160+00	60 RIGHT	550	1
219+00	190 RIGHT	575	1
293+00	60 LEFT	525	1
297+68	CENTERLINE	520	1
300+81	CENTERLINE	525	1
322+00	60 RIGHT	570	1
322+00	190 RIGHT	535	1
329+00	190 RIGHT	570	1
340+00	160 LEFT	580	1
371+00	120 LEFT	568	1
377+00	25 LEFT	530	1
TOTAL CARRIED TO GENERAL SUMMARY			12

CALCULATED SLP CHECKED ALB

GENERAL NOTES

LAW-7-2.17

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659 - SOIL ANALYSIS TEST ..... 1 EACH
ITEM 659 - REPAIR SEEDING AND MULCHING ..... 5921 SY
ITEM 659 - INTER-SEEDING ..... 59221 SY
ITEM 659 - COMMERCIAL FERTILIZER ..... 166 TON
ITEM 659 - LIME ..... 244.71 AC
ITEM 659 - WATER ..... 6556 M GAL
ITEM 659 - MOWING ..... 2665 M SF

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT- OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR PROVIDING THE VEGETATED FILTER STRIPS AS SHOWN ON SHEET 87.

ITEM 659 - TOPSOIL ..... 468 CY
ITEM 670 - SLOPE EROSION PROTECTION ..... 4207 SY

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

EXTENDED DETENTION BASIN

THIS PLAN UTILIZES EXTENDED DETENTION BASIN(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. DETENTION BASINS MAY BE USED AS SEDIMENT CONTROL DEVICES DURING CONSTRUCTION. FOLLOWING STABILIZATION OF THE TRIBUTARY AREA, FINAL GRADING OF THE DETENTION BASIN MUST MATCH THE PLANS. THE DETENTION BASIN OUTLET STRUCTURE FOR CONSTRUCTION SEDIMENT CONTROL MUST BE REMOVED AND THE OUTLET STRUCTURE MUST BE MADE TO MATCH THE DESIGN SHOWN IN THE PLANS.

ITEM 659 - TOPSOIL, AS PER PLAN

THE CONTRACTOR SHALL EXCAVATE FOR AND PLACE 12" OF TOPSOIL IN THE AREAS OF THE VEGETATED BIOFILTERS THAT HAVE BEEN IDENTIFIED IN THE PLANS.

ALL LABOR, EQUIPMENT AND MATERIALS NEEDED TO COMPLETE THE WORK, INCLUDING EXCAVATION AND DISPOSAL, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 659 - TOPSOIL, AS PER PLAN.

THE FOLLOWING TABLE HAS IDENTIFIED THE LOCATIONS AND QUANTITIES WHERE THE WORK ABOVE APPLIES.

STATION	TO	STATION	SIDE	ITEM 659 - TOPSOIL, AS PER PLAN (CY)
175+00.00	-	180+30.00	LT.	197
223+50.00	-	226+50.00	LT.	78
307+00.00	-	315+00.00	LT.	297
327+00.00	-	334+50.00	LT.	278
343+00.00	-	351+00.00	LT.	297
351+00.00	-	360+00.00	RT.	300
64+74.00	-	391+50.00	LT.	294
TOTAL CARRIED TO GENERAL SUMMARY				1741

MATCH LINES ON CROSS SECTIONS

THE INTENT OF THE MATCH LINE IS TO SHOW THE RELATIONSHIP OF THE PROPOSED GRADING BETWEEN TWO PROPOSED ROADS. ADJUSTMENTS IN THE FIELD MAY BE NECESSARY.

ITEM 605 - AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT 50 FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS, STAGGERED SO THAT EACH DRAIN IS 25 FEET FROM THE ADJACENT DRAIN ON THE OPPOSITE SIDE, AND AT 25 FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPERELEVATED SECTIONS. AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

ROAD NAME	NUMBER OF AGG. DRAINS	AVG. LENGTH (FT.)	TOTAL (FT.)
BRENTWOOD EMERGENCY ACCESS	37	8	296
HENSON HOLLOW EMERGENCY ACCESS	10	11	110
LYNN LANE	16	10	160
DOGWOOD LANE EXTENSION	14	8	112
C.R. 69	184	11	2024
C.R. 118	19	11	209
C.R. 2	30	16	480
TOTAL CARRIED TO THE GENERAL SUMMARY			3391

ITEM 611 - CATCH BASIN, NO. 5A, AS PER PLAN
ITEM 611 - CATCH BASIN, NO. 8A, AS PER PLAN

THE CONTRACTOR IS TO PROVIDE CATCH BASINS IN ACCORDANCE WITH ITEM 611 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS EXCEPT THE CATCH BASIN SHALL BE PROVIDED WITH THE BASE WIDTH AS INDICATED IN THE PLANS. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY AND SHALL BE INCLUDED IN THE UNIT PRICE BID PER ITEM 611 - CATCH BASIN, NO. 5A, AS PER PLAN OR ITEM 611 - CATCH BASIN NO. 8A, AS PER PLAN.

ITEM 601 - SLOPE PROTECTION, MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 AND PERCUSSION DRIVEN EARTH ANCHORS

THE SLOPE PROTECTION SHALL CONSIST OF SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 WITH THE FOLLOWING ADDITIONAL REQUIREMENTS, FURNISHED AND INSTALLED ACCORDING TO ITEM 836.

- TENSILE STRENGTH (MARV) OF 4,000 X 3,000 LB/FT PER ASTM D 6818
- UV RESISTANCE % STRENGTH RETAINED OF 90% AT 6000 HR PER ASTM D 4355
- LIGHT PENETRATION MAX 10% PER ASTM D 6567

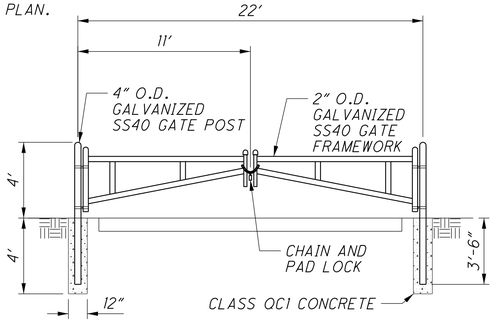
PERCUSSION DRIVEN EARTH ANCHORS AND SECURING PINS SHALL BE FURNISHED AND INSTALLED OVER TOP OF THE REINFORCING MAT. THE PERCUSSION DRIVEN EARTH ANCHORS AND SECURING PINS SHOULD HAVE THE FOLLOWING MINIMUM PROPERTIES AND REQUIREMENTS:

- TYPICAL ANCHOR WORKING LOAD UP TO 2,000 LBS.
- LOAD BEARING PLATE/HPTRM PULL-THROUGH STRENGTH OF 2,800 LB.
- PERCUSSION DRIVEN EARTH ANCHORS: VERTICAL ANCHOR SPACING OF 4 FEET (ALONG THE SLOPE FACE) AND 4 FEET HORIZONTAL (ACROSS THE SLOPE FACE).
- ANCHOR EMBEDMENT DEPTH 9 FT.
- SECURING PIN SHOULD BE A MINIMUM OF 0.2 INCH DIAMETER STEEL WITH A 1.5 INCH STEEL WASHER AT THE HEAD OF THE PIN.
- SECURING PINS: VERTICAL PIN SPACING OF 2 FEET (ALONG THE SLOPE FACE) AND 2 FEET HORIZONTAL (ACROSS THE SLOPE FACE).
- SECURING PIN LENGTH OF 18 INCHES.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR ITEM 601 - SLOPE PROTECTION, MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 AND PERCUSSION DRIVEN EARTH ANCHORS AND SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THE WORK.

ITEM 607 - FENCE, MISC.: GATE, AS PER PLAN

THE GATE AND ALL APPURTENANCES INCLUDING EXCAVATION AND CONCRETE SHALL BE CONSTRUCTED WHERE SPECIFIED IN THE PLANS, PER MISCELLANEOUS DETAIL BELOW AND AS DIRECTED BY THE ENGINEER. KEYS SHALL BE PROVIDED TO THE ODOT, DISTRICT 9 OFFICE. PAYMENT FOR ALL WORK SHALL BE INCLUDED IN THE PRICE BID PER ITEM 607 - FENCE, MISC.: GATE, AS PER PLAN.



BARRICADE GATE DETAIL
N.T.S.

STA. 13+80.00 AND STA. 22+85.54 (CENTERED ALONG BIRCH LANE), BRENTWOOD EMERGENCY ACCESS DRIVE

STA. 10+40.00 AND STA. 12+26.00 HENSON HOLLOW EMERGENCY ACCESS

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

ROCK OR SHALE BLASTING OPERATIONS

SHOULD THE CONTRACTOR ELECT TO USE BLASTING AS A MEANS FOR EXCAVATION PER ITEM 203.04, BLASTING SHALL CONFORM TO CMS ITEM 208 WITH THE EXCEPTION OF PRE-SPLITTING. NO PRE-SPLITTING SHALL BE PERFORMED. NOTE THERE IS SENSITIVE GEOLOGY WITHIN AND ADJACENT TO THE PROJECT LIMITS AND THE CONTRACTOR SHALL TAKE CARE THAT BLASTING DOES NOT RESULT IN OVEREXCAVATION OR LANDSLIDES.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AND SHALL BE USED AS DIRECTED BY THE ENGINEER.

ITEM 208 - PRE-BLAST CONDITION SURVEY ..... LS
ITEM 208 - BLASTING CONSULTANT ..... LS
ITEM 208 - AIR BLAST NOISE CONTROL ..... LS
ITEM 208 - VIBRATION CONTROL AND MONITORING ..... LS
ITEM 208 - HYDROLOGIST ..... LS

CALCULATED SLP CHECKED ALB

GENERAL NOTES

LAW-7-2.17

ASBESTOS INSPECTION AND ABATEMENT

THIS CONTRACT DOES NOT INCLUDE ANY ASBESTOS INSPECTION OR ABATEMENT. THE DEPARTMENT IS PERFORMING ASBESTOS INSPECTION OF ALL STRUCTURES THAT ARE REMAINING TO BE DEMOLISHED AND INCLUDED IN THIS CONTRACT FOR DEMOLITION BY ITEM 202 BUILDING DEMOLITION, AS PER PLAN. ANY UNKNOWN REGULATED ASBESTOS FOUND ON A RIGHT-OF-WAY PARCEL ARE TO BE REMOVED IN ACCORDANCE WITH 202 AND OHIO LAW AS EXTRA WORK IN ACCORDANCE WITH 109.04 AND 109.05.

OEPA NOTIFICATION OF DEMOLITION AND RENOVATION

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED BY THE ASBESTOS HAZARD EVALUATION SPECIALIST, HAS BEEN INCLUDED AS A SPECIAL PROVISION. THE CONTRACTOR SHALL COMPLETE AND SIGN THE FORMS AND SUBMIT IT TO THE ADDRESS BELOW OR ONLINE AT EBIZ.EPA.OHIO.GOV.

ASBESTOS PROGRAM
OHIO EPA, DAPC
P.O. BOX 1049
COLUMBUS, OH 43216-1049

THE FORM MUST BE SUBMITTED AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION WORK. THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED AND SIGNED FORMS TO THE ENGINEER AS WELL AS THE ASBESTOS HAZARD EVALUATION SPECIALIST.

BASIS FOR PAYMENT: THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORMS. PAYMENTS FOR THIS WORK SHALL BE INCIDENTAL TO EACH OF THE ITEM 202 BUILDING DEMOLISHED, AS PER PLAN ITEMS.

BUILDING DEMOLISHED, AS PER PLAN

BUILDINGS AND APPURTENANCES SUCH AS, BUT NOT LIMITED TO FENCES, SEPTIC TANKS, CISTERNS, WELLS, BASEMENTS, POOLS, DRIVEWAYS, DRIVE PIPES, PLANTERS, DECORATIVE WALLS ON EACH RIGHT-OF-WAY PARCEL SHALL BE DEMOLISHED IN THEIR ENTIRETY IN ACCORDANCE WITH 202 AND DEBRIS/MATERIAL FROM THE DEMOLITION SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.17 AND ALL AREAS DISTURBED SHALL BE RESTORED IN ACCORDANCE WITH 104.04 TO THE SATISFACTION OF THE ENGINEERS.

ANY UNKNOWN REGULATED UNDERGROUND STORAGE TANKS FOUND ON A RIGHT-OF-WAY PARCEL ARE TO BE REMOVED IN ACCORDANCE WITH 202.08 AS EXTRA WORK IN ACCORDANCE WITH 109.04 AND 109.05.

BURNING IS NOT A PERMISSIBLE METHOD OF REMOVAL UNLESS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY OWNERS OF WATER, ELECTRIC, OR GAS METERS WHEN THE METERS ARE READY FOR REMOVAL AND SHALL BE RESPONSIBLE FOR DISCONNECTION/REMOVAL OF SERVICE LINES FROM PUBLIC AND/OR PRIVATE UTILITY LINES IN COMPLIANCE WITH LOCAL REQUIREMENTS.

ITEM 619 FIELD OFFICE, TYPE C, AS PER PLAN

THE FOLLOWING REQUIREMENTS SHALL BE PROVIDED IN ADDITION TO ITEM 619 FIELD OFFICE, TYPE C:

THE FIELD OFFICE FOR THE DEPARTMENT SHALL BE LOCATED WITHIN 1 MILE OF THE PROJECT RIGHT-OF-WAY AND WITHIN THE STATE OF OHIO. THE DEPARMENTS FIELD OFFICE SHALL BE CO-LOCATED IN SAME AREA AS CONTRACTORS FIELD OFFICE.

IN ADDITION TO THE FLOOR SPACE FOR OFFICES CITED IN ITEM 619, AN ENCLOSED 800 SQ FEET CONFERENCE ROOM PROVIDED TO ACCOMMODATE AT LEAST 25 PEOPLE WITH CONFERENCE TABLE SUFFICIENT TO SEAT ALL THE CHAIRS FOR EACH PERSON. INCLUDE ONE 70" (MIN) WALL MOUNTED HDTV WITH HDMI INPUT FOR MEETINGS AND PRESENTATIONS. CONFERENCE ROOM SHALL INCLUDE ONE 4FT BY 6FT DRY ERASE WHITEBOARD WITH TRAY AND MARKERS. NETWORK WIRING IN THE ROOM FOR DEDICATED CONFERENCE PHONE. THIS CONFERENCE ROOM WILL BE USED FOR PRESENTATIONS, MEETINGS, DRB AND OTHER COMMON USES BETWEEN THE DEPARTMENT AND CONTRACTOR, BUT ITS USE IS PRIMARILY FOR THE DEPARTMENT UNLESS APPROVED BY THE ENGINEER.

BREAK ROOM INCLUDING MICROWAVE OVEN AND ONE 20 CF REFRIGERATOR.

ONE 25 SF LOCKABLE CLOSET FOR EQUIPMENT.

AT LEAST 5 OFFICES (120 SF MIN) WITH DOORS AND NETWORK WIRING COMING FROM A SEPARATE AND LOCKING DATA CLOSET. DEPARTMENT WILL PROVIDE A NETWORK SWITCH TO CONNECT ITS COMPUTERS AND PHONES TO THE INTERNET FEED PROVIDED BY CONTRACTOR. CONTRACTOR TO PROVIDE TWO DUPLEX ELECTRIC RECEPTICALS AN TWO DATA PORTS INTO EACH OFFICE AND EACH COMMON AREAS, EACH WITH A HOMERUN CAT 5E NEWORK CABLE TO EACH DATA PORT.

PORTABLE RESTROOMS FOR THE FIELD OFFICE ARE NOT ALLOWED AND THEY SHALL BE FLUSHABLE AND SEPARATE FACILITIES PROVIDED FOR MEN AND WOMEN AND EACH INCLUDE HOT AND COLD RUNNING WATER.

OFFICE SPACES AND RESTROOMS SHALL BE SANITIZED, CLEANED, SWEPT AND VACUUMED THREE TIMES PER WEEK AND SHALL OCCUR OUTSIDE OF NORMAL WORKING HOURS.

INTERNET SPEED SHALL BE MINIMUM 300MBPS DOWNLOAD AND 50MBPS UPLOAD.

THE ALL WEATHER PARKING SPACES FOR THE DEPARTMENTS VEHICLES SHALL BE ENCLOSED WITH A 6 FT CHAIN LINK FENCE PER CMS ITEM 710 WITH TWO LOCKING DOUBLE LEAF 8 FT GATES. PARKING AREA AND EXTERIOR OF FIELD OFFICE SHALL HAVE EXTERIOR SECURITY LIGHTING THAT IS AUTOMATICALLY ACTIVATED FOR LOW LIGHT CONDITIONS.

DURABLE MATERIAL

DURABLE SANDSTONE AND SILTSTONE ENCOUNTERED DURING EXCAVATION, SHOULD BE USED AT THE BASE OF THE EMBANKMENTS. THIS MATERIAL COULD ALSO BE USED FOR ITEM 203 - EMBANKMENT, AS PER PLAN (TYPE C) SHOULD IT MEET THE CRITERIA IDENTIFIED IN THE PLANS.

CALCULATED SLP
CHECKED ALB

GENERAL NOTES

LAW-7-2.17

37A
1247

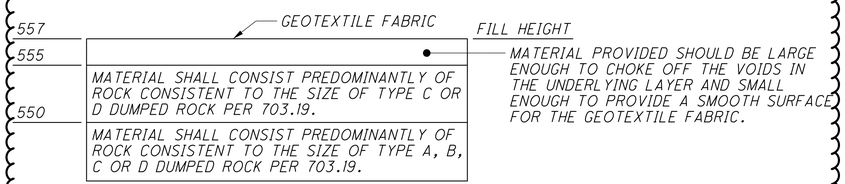
EMBANKMENTS - PERMISSIBLE RATES OF CONSTRUCTION

EMBANKMENTS AT THE FOLLOWING LOCATIONS SHALL BE CONSTRUCTED USING NORMAL RATES OF CONSTRUCTION UP THE TO ELEVATIONS LISTED IN THE TABLE BELOW. ABOVE THESE MAXIMUM ELEVATIONS, THE SPECIFIED RATES OF CONSTRUCTION ARE REQUIRED TO INCREASE SHORT TERM SLOPE STABILITY FACTORS OF SAFETY TO ACCEPTABLE LEVELS:

STATION ANALYZED	MAX EMBANKMENT ELEVATION USING NORMAL CONSTRUCTION RATES (FEET)	PERMISSIBLE CONSTRUCTION RATE (FEET/WEEK)	APPROX. STATION INTERVAL FOR RATE CONSTRUCTION
136+00	548	13	136+25 to 146+00
160+00	578	10.7	148+00 to 162+00
219+00	605	3.2	215+00 to 228+50
293+00	545	5	289+00 to 295+00
322+00	609	3.6	316+00 to 324+00
329+00	590	1.3	324+50 to 332+50
340+00	623	11.2	338+50 to 342+00
371+00	593	4.6	342+00 to 374+00
REINFORCED SLOPES			
198+00	565	6.1	196+75 to 199+87
297+68	549	16.4	296+75 to 298+58
300+81	549	16.3	300+06 to 301+00
377+50	573	8.2	376+60 to 378+34, Ramp 1 376+35 to 377+94

ITEM 203 - EMBANKMENT, AS PER PLAN (TYPE C)

THIS ITEM SHALL CONSIST OF PROVIDING AND PLACEMENT OF THE DRAINAGE LAYER AS SHOWN ON THE CROSS-SECTIONS. THE DRAINAGE LAYER MUST BE CONSTRUCTED TO PREVENT INTERNAL EROSION OR PIPING OF THE EMBANKMENT DURING OR AFTER A FLOOD EVENT. ON-SITE SANDSTONE OR SILTSTONE MAY BE USED IF THE MATERIAL HAS A SLAKE DURABILITY INDEX GREATER THAN 90 PERCENT ACCORDING TO ASTM D 4644-87. MATERIAL DESIGNATED FOR THE DRAINAGE LAYER SHALL BE TESTED PRIOR TO PLACEMENT FOR SLAKE DURABILITY INDEX AT A MINIMUM OF ONE TEST EVERY 5,000 CUBIC YARDS. ITEM 712.09 TYPE A GEOTEXTILE FABRIC WITH AN AOS LESS THAN OR EQUAL TO 0.3 MM SHALL BE PLACED ABOVE THE DRAINAGE LAYER TO ASSIST SEPARATION OF THE EMBANKMENT SOIL FROM THE DRAINAGE MATERIAL. THE DRAINAGE LAYER SHALL BE CONSTRUCTED TO A TOP ELEVATION OF 557 WHERE SHOWN ON THE CROSS-SECTIONS. SEE THE DETAIL BELOW FOR ADDITIONAL INFORMATION REGARDING MATERIAL SIZE AND DRAINAGE LAYER BUILDUP. ROCK SPALLS AND ROCK FINES ARE ACCEPTABLE UP TO AN AVERAGE OF 20% OF THE MATERIAL AS DETERMINED BY VOLUME AND VISUAL INSPECTION. AREAS OF PLACED MATERIALS WITH EXCESS FINES MAY BE REJECTED BY THE ENGINEER. ALL MATERIALS SHALL BE FREE FROM SOIL.

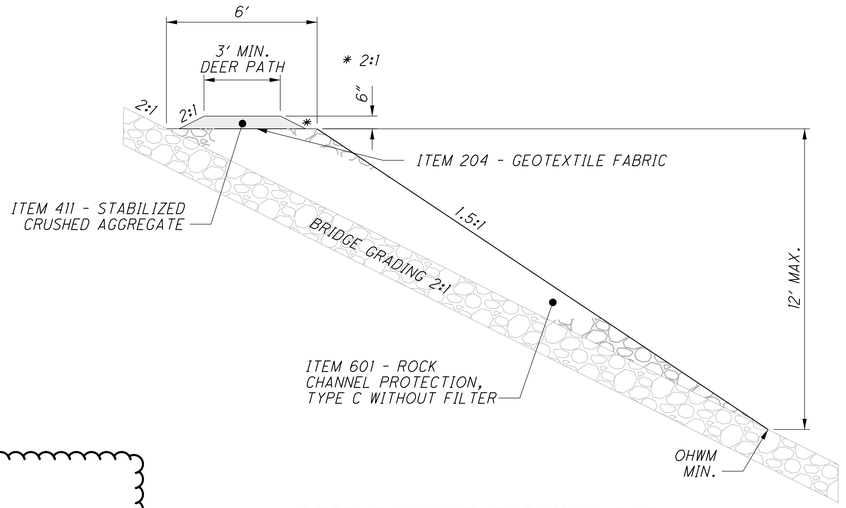


PAYMENT FOR THE ABOVE WORK INCLUDING ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE PAID FOR AT THE CONTRACT PRICE PER CUBIC YARD OF ITEM 203 - EMBANKMENT, AS PER PLAN (TYPE C).

CONSTRUCTED DEER PATH

THE CONTRACTOR IS TO CONSTRUCT A PROPOSED DEER PATH AT THE LOCATIONS LISTED IN THE TABLE BELOW AND ACCORDING TO THE DETAIL BELOW. THE PATH HAS NOT BEEN SHOWN IN IT'S ENTIRETY IN THE PLANS, BUT QUANTITIES HAVE BEEN INCLUDED TO PROVIDE A DEER PATH THAT EXTENDS TO THE LIMITS OF THE ROCK CHANNEL PROTECTION AT THE BRIDGE ABUTMENTS AND TRANSITIONED DOWN TO NATURAL GROUND.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO COMPLETE THIS WORK.



DEER PASSAGE THROUGH RCP

LOCATION	LENGTH	TOP OF ROCK CHANNEL PROTECTION ELEVATION	204 GEOTEXTILE FABRIC	411 STABILIZED CRUSHED AGGREGATE	601 ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER
			SY	CY	CY
S.R. 7 - BRIDGE LAW-7-0711P REAR ABUTMENT	200	561	111.11	14.81	266.67
S.R. 7 - BRIDGE LAW-7-0711P FORWARD ABUTMENT	157	561	87.22	11.63	209.33
S.R. 7 - BRIDGE LAW-7-0713L/R REAR ABUTMENT	248	561	137.78	18.37	330.67
S.R. 7 - BRIDGE LAW-7-0713L/R FORWARD ABUTMENT	330	561	183.33	24.44	440.00
TOTALS			519.44	69.26	1246.67
TOTALS CARRIED TO GENERAL SUMMARY			520	70	1247

EMBANKMENTS - REINFORCED SOIL SLOPES

CONSTRUCT REINFORCED SOIL SLOPE ACCORDING TO SUPPLEMENTAL SPECIFICATION 863.

PRIMARY REINFORCEMENT TO BE ITEM 863 UNIAXIAL OR BIAXIAL GEOGRID TYPE P1 AND P3.

SECONDARY REINFORCEMENT TO BE ITEM 863 BIAXIAL GEOGRID TYPE S1.

SECONDARY REINFORCEMENT SPACING OF 1 FOOT AND WIDTH OF 6 FEET.

REINFORCEMENT NOT WRAPPED AT SLOPE FACE.

ESTIMATED GEOGRID QUANTITIES WERE BASED ON THE MAXIMUM FILL SECTION. GEOGRID LAYERS CAN BE DISCONTINUED WHEN EXITING GROUND IS HIGHER THAN THE GEOGRID LAYER ELEVATION. ACTUAL GEOGRID QUANTITIES WILL DEPEND ON THE AMOUNT OF UNDERCUTTING, BENCHING, AND SURFACE PREPARATION PERFORMED.

EMBANKMENTS AT THE FOLLOWING LOCATIONS SHALL BE REINFORCED WITH GEOGRID AS INDICATED IN THE FOLLOWING TABLES.

STA. 134+56 TO STA. 136+25 RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	863 GEOGRID, TYPE P1	863 GEOGRID, TYPE S1
		FT	SY	SY
525	P1	90	5280	
526	P1	90	5280	
527	P1	90	5280	
528	P1	85	4987	
529	P1	85	4987	
530	S1	6		352
531	S1	6		352
532	P1	50	2933	
533	S1	6		352
534	S1	6		352
535	P1	50	2933	
536	S1	6		352
537	S1	6		352
538	P1	50	2933	
539	S1	6		352
540	S1	6		352
541	P1	50	2933	
542	S1	6		352
543	S1	6		352
544	S1	6		352
545	S1	6		352
546	S1	6		352
547	P1	40	2347	
548	S1	6		352
549	S1	6		352
550	S1	6		352
551	S1	6		352
552	S1	6		352
553	P1	40	2347	
554	S1	6		352
555	S1	6		352
556	S1	6		352
557	S1	6		352
558	S1	6		352
559	P1	40	2347	
560	S1	6		352
561	S1	6		352
562	S1	6		352
563	S1	6		352
TOTALS CARRIED TO SHEET 41			44587	9504

CALCULATED SLP CHECKED ALB

GENERAL NOTES

LAW-7-2.17

STA. 196+75 TO STA. 199+87 RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	863 GEOGRID, TYPE P1	863 GEOGRID, TYPE S1
		FT	SY	SY
541	P1	60	5627	
542	P1	60	5627	
543	P1	55	5158	
544	P1	55	5158	
545	P1	55	5158	
546	S1	6		563
547	S1	6		563
548	P1	45	4220	
549	S1	6		563
550	S1	6		563
551	P1	45	4220	
552	S1	6		563
553	S1	6		563
554	P1	45	4220	
555	S1	6		563
556	S1	6		563
557	P1	45	4220	
558	S1	6		563
559	S1	6		563
560	S1	6		563
561	S1	6		563
562	S1	6		563
563	P1	45	4220	
564	S1	6		563
565	S1	6		563
566	S1	6		563
567	S1	6		563
568	S1	6		563
569	P1	30	2813	
570	S1	6		563
571	S1	6		563
572	S1	6		563
573	S1	6		563
574	S1	6		563
575	P1	30	2813	
576	S1	6		563
577	S1	6		563
578	S1	6		563
579	S1	6		563
580	S1	6		563
581	P1	30	2813	
582	S1	6		563
583	S1	6		563
584	S1	6		563
585	S1	6		563
586	S1	6		563
587	P1	30	2813	
TOTALS CARRIED TO SHEET 41			59080	18568

STA. 201+04 TO STA. 204+38.55 RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	863 GEOGRID, TYPE P1	863 GEOGRID, TYPE S1
		FT	SY	SY
536	P1	90	9190	
537	P1	90	9190	
538	P1	85	8679	
539	P1	85	8679	
540	P1	85	8679	
541	S1	6		613
542	S1	6		613
543	P1	60	6127	
544	S1	6		613
545	S1	6		613
546	P1	60	6127	
547	S1	6		613
548	S1	6		613
549	P1	60	6127	
550	S1	6		613
551	S1	6		613
552	P1	60	6127	
553	S1	6		613
554	S1	6		613
555	S1	6		613
556	S1	6		613
557	S1	6		613
558	P1	60	6127	
559	S1	6		613
560	S1	6		613
561	S1	6		613
562	S1	6		613
563	S1	6		613
564	P1	30	3063	
565	S1	6		613
566	S1	6		613
567	S1	6		613
568	S1	6		613
569	S1	6		613
570	P1	30	3063	
571	S1	6		613
572	S1	6		613
573	S1	6		613
574	S1	6		613
575	S1	6		613
576	P1	30	3063	
577	S1	6		613
578	S1	6		613
579	S1	6		613
580	S1	6		613
581	S1	6		613
582	P1	30	3063	
583	S1	6		613
TOTALS CARRIED TO SHEET 41			87305	20831

STA. 206+25 TO STA. 209+25 RT

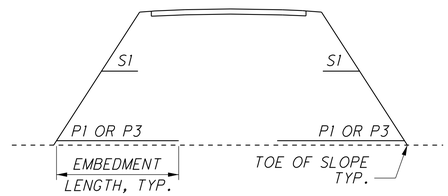
ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	863 GEOGRID, TYPE P1	863 GEOGRID, TYPE S1
		FT	SY	SY
571	P1	30	1000	
572	P1	30	1000	
573	P1	25	833	
574	P1	25	833	
575	P1	25	833	
576	S1	6		200
577	S1	6		200
578	P1	15	500	
579	S1	6		200
580	S1	6		200
581	P1	15	500	
582	S1	6		200
583	S1	6		200
584	P1	15	500	
585	S1	6		200
586	S1	6		200
587	P1	15	500	
588	S1	6		200
589	S1	6		200
590	S1	6		200
591	S1	6		200
592	S1	6		200
TOTALS CARRIED TO SHEET 41			6500	2600

STA. 296+75 TO STA. 298+58 RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	863 GEOGRID, TYPE P3	863 GEOGRID, TYPE S1
		FT	SY	SY
533	P3	90	5600	
534	P3	90	5600	
535	P3	85	5289	
536	P3	85	5289	
537	P3	85	5289	
538	S1	6		373
539	S1	6		373
540	P3	50	3111	
541	S1	6		373
542	S1	6		373
543	P3	50	3111	
544	S1	6		373
545	S1	6		373
546	P3	40	2489	
547	S1	6		373
548	S1	6		373
549	P3	40	2489	
550	S1	6		373
551	S1	6		373
552	S1	6		373
553	S1	6		373
554	S1	6		373
555	P3	40	2489	
556	S1	6		373
557	S1	6		373
558	S1	6		373
559	S1	6		373
560	S1	6		373
561	P3	40	2489	
562	S1	6		373
563	S1	6		373
564	S1	6		373
565	S1	6		373
566	S1	6		373
567	P3	40	2489	
568	S1	6		373
TOTALS CARRIED TO SHEET 41			45733	8960

STA. 300+06 TO STA. 301+00 RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	863 GEOGRID, TYPE P1	863 GEOGRID, TYPE S1
		FT	SY	SY
536	P1	80	2862	
537	P1	80	2862	
538	P1	75	2683	
539	P1	75	2683	
540	P1	75	2683	
541	S1	6		215
542	S1	6		215
543	P1	30	1073	
544	S1	6		215
545	S1	6		215
546	P1	30	1073	
547	S1	6		215
548	S1	6		215
549	P1	30	1073	
550	S1	6		215
551	S1	6		215
552	P1	30	1073	
553	S1	6		215
554	S1	6		215
555	S1	6		215
556	S1	6		215
557	S1	6		215
558	P1	30	1073	
559	S1	6		215
560	S1	6		215
561	S1	6		215
562	S1	6		215
563	S1	6		215
TOTALS CARRIED TO SHEET 41			19141	3864



TYPICAL REINFORCED SOIL SLOPES
NTS

NOTES:

P1 OR P3 LAID PERPENDICULAR TO THE SLOPE. FOR ELEVATIONS AND EMBEDMENT LENGTHS, SEE TABLES.

S1 - SECONDARY REINFORCEMENT, SINGLE WIDTH, LAID PARALLEL TO THE SLOPE. FOR WIDTHS AND ELEVATIONS, SEE TABLES. NO WRAPPING OF THE FACE OF THE SLOPE NEEDED.

* REINFORCING TO CONTINUE THROUGH THE BRIDGE SPILL THROUGH SLOPE. FOLLOW THE TYPE, ELEVATIONS AND EMBEDMENT LENGTHS PROVIDED IN THE TABLES.

CALCULATED SLP
CHECKED ALB

GENERAL NOTES

LAW-7-2.17

SR 7 STA. 376+60 TO STA. 376+87,
RAMP I STA. 376+35 TO STA. 377+95, RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	903 GEOGRID, TYPE P3	903 GEOGRID, TYPE SI
		FT	SY	SY
544	P3	60	5573	
545	P3	60	5573	
546	P3	60	5573	
547	P3	60	5573	
548	P3	60	5573	
549	SI	6		557
550	SI	6		557
551	P3	60	5573	
552	SI	6		557
553	SI	6		557
554	P3	60	5573	
555	SI	6		557
556	SI	6		557
557	P3	60	5573	
558	SI	6		557
559	SI	6		557
560	P3	60	5573	
561	SI	6		557
562	SI	6		557
563	P3	60	5573	
564	SI	6		557
565	SI	6		557
566	SI	6		557
567	SI	6		557
568	P3	60	5573	
569	SI	6		557
570	SI	6		557
571	SI	6		557
572	SI	6		557
573	P3	60	5573	
574	SI	6		557
575	SI	6		557
576	SI	6		557
577	SI	6		557
578	P3	70	6502	
579	SI	6		557
580	SI	6		557
581	SI	6		557
582	SI	6		557
583	P3	70	6502	
584	SI	6		557
585	SI	6		557
586	SI	6		557
587	SI	6		557
588	P3	70	6502	
589	SI	6		557
590	SI	6		557
591	SI	6		557
592	SI	6		557
593	P3	70	6502	
594	SI	6		557
595	SI	6		557
596	SI	6		557
597	SI	6		557
598	P3	70	6502	
599	SI	6		557
600	SI	6		557
601	SI	6		557
602	SI	6		557
603	P3	70	6502	
604	SI	6		557
605	SI	6		557
606	SI	6		557
607	SI	6		557
608	P3	70	6502	
609	SI	6		557
610	SI	6		557
611	SI	6		557
612	SI	6		557
613	P3	70	6502	
614	SI	6		557
615	SI	6		557
616	SI	6		557
617	SI	6		557
618	P3	70	6502	
619	SI	6		557
620	SI	6		557
621	SI	6		557
622	SI	6		557
TOTALS CARRIED TO SHEET			125400	32325

S.R. 7 STA. 378+64 TO STA. 379+00,
RAMP I STA. 378+30 TO STA. 379+78, RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	903 GEOGRID, TYPE P1	903 GEOGRID, TYPE SI
		FT	SY	SY
545	P1	65	3640	
546	P1	65	3640	
547	P1	60	3360	
548	P1	60	3360	
549	P1	60	3360	
550	SI	6		336
551	SI	6		336
552	P1	50	2800	
553	SI	6		336
554	P1	50	2800	
555	SI	6		336
556	SI	6		336
557	SI	6		336
558	P1	50	2800	
559	SI	6		336
560	SI	6		336
561	P1	50	2800	
562	SI	6		336
563	SI	6		336
564	SI	6		336
565	SI	6		336
566	SI	6		336
567	P1	30	1680	
568	SI	6		336
569	SI	6		336
570	SI	6		336
571	SI	6		336
572	SI	6		336
573	P1	30	1680	
574	SI	6		336
575	SI	6		336
576	SI	6		336
577	SI	6		336
578	SI	6		336
579	P1	30	1680	
580	SI	6		336
581	SI	6		336
582	SI	6		336
583	SI	6		336
584	SI	6		336
585	P1	30	1680	
586	SI	6		336
587	SI	6		336
588	SI	6		336
589	SI	6		336
590	SI	6		336
591	P1	30	1680	
592	SI	6		336
593	SI	6		336
594	SI	6		336
595	SI	6		336
596	SI	6		336
597	P1	30	1680	
598	SI	6		336
599	SI	6		336
600	SI	6		336
601	SI	6		336
602	SI	6		336
TOTALS CARRIED TO SHEET			38640	14448

SR 775 STA. 54+61.56 TO STA. 55+97, RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	903 GEOGRID, TYPE P1	903 GEOGRID, TYPE SI
		FT	SY	SY
545	P1	65	1957	
546	P1	65	1957	
547	P1	65	1957	
548	P1	65	1957	
549	P1	65	1957	
550	SI	6		181
551	SI	6		181
552	P1	60	1807	
553	SI	6		181
554	SI	6		181
555	P1	60	1807	
556	SI	6		181
557	SI	6		181
558	P1	60	1807	
559	SI	6		181
560	SI	6		181
561	P1	60	1807	
562	SI	6		181
563	SI	6		181
564	SI	6		181
565	SI	6		181
566	SI	6		181
567	P1	60	1807	
568	SI	6		181
569	SI	6		181
570	SI	6		181
571	SI	6		181
572	SI	6		181
573	P1	60	1807	
574	SI	6		181
575	SI	6		181
576	SI	6		181
577	SI	6		181
578	SI	6		181
579	P1	60	1807	
580	SI	6		181
581	SI	6		181
582	SI	6		181
583	SI	6		181
584	SI	6		181
585	P1	60	1807	
586	SI	6		181
587	SI	6		181
588	SI	6		181
589	SI	6		181
590	SI	6		181
591	P1	50	1506	
592	SI	6		181
593	SI	6		181
594	SI	6		181
595	SI	6		181
596	SI	6		181
597	P1	50	1506	
598	SI	6		181
599	SI	6		181
600	SI	6		181
601	SI	6		181
602	SI	6		181
603	P1	50	1506	
604	SI	6		181
605	SI	6		181
606	SI	6		181
607	SI	6		181
608	SI	6		181
609	P1	50	1506	
610	SI	6		181
611	SI	6		181
612	SI	6		181
613	SI	6		181
614	SI	6		181
615	P1	30	903	
616	SI	6		181
617	SI	6		181
618	SI	6		181
619	SI	6		181
620	SI	41 6		181

SR 775 STA. 54+61.56 TO STA. 55+97, RT/LT/BRIDGE SPILL THROUGH*

ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	903 GEOGRID, TYPE P1	903 GEOGRID, TYPE SI
		FT	SY	SY
621	P1	30	903	
622	SI	6		181
623	SI	6		181
624	SI	6		181
TOTALS CARRIED TO SHEET 41			32068	11021

CALCULATED SLP CHECKED ALB

GENERAL NOTES

LAW-7-2.17

40
1247

Ramp L STA. 380+25 TO STA. 389+25, RT/BRIDGE SPILL THROUGH*			863	863
ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	GEOGRID, TYPE P1	GEOGRID, TYPE S1
		FT	SY	SY
561	P1	35	3500	
562	P1	35	3500	
563	P1	30	3000	
564	P1	30	3000	
565	P1	30	3000	
566	S1	6		600
567	S1	6		600
568	P1	15	1500	
569	S1	6		600
570	S1	6		600
571	P1	15	1500	
572	S1	6		600
573	S1	6		600
574	P1	15	1500	
575	S1	6		600
576	S1	6		600
577	P1	15	1500	
578	S1	6		600
579	S1	6		600
580	S1	6		600
581	S1	6		600
582	S1	6		600
583	P1	15	1500	
584	S1	6		600
585	S1	6		600
586	S1	6		600
587	S1	6		600
588	S1	6		600
589	P1	15	1500	
590	S1	6		600
591	S1	6		600
592	S1	6		600
593	S1	6		600
594	S1	6		600
595	P1	15	1500	
596	S1	6		600
597	S1	6		600
598	S1	6		600
599	S1	6		600
600	S1	6		600
601	P1	15	1500	
602	S1	6		600
603	S1	6		600
604	S1	6		600
605	S1	6		600
606	S1	6		600
607	P1	15	1500	
608	S1	6		600
609	S1	6		600
610	S1	6		600
611	S1	6		600
612	S1	6		600
613	S1	6		600
614	S1	6		600
TOTALS CARRIED TO THIS SHEET			29500	24000

SR 775 STA. 57+75 TO STA. 61+25, LT/BRIDGE SPILL THROUGH*			863	863
ELEVATION	GEOGRID TYPE	EMBEDMENT LENGTH	GEOGRID, TYPE P1	GEOGRID, TYPE S1
		FT	SY	SY
545	P1	150	11667	
546	P1	150	11667	
547	P1	150	11667	
548	P1	150	11667	
549	P1	150	11667	
550	P1	150	11667	
551	S1	6		467
552	P1	120	9333	
553	S1	6		467
554	P1	120	9333	
555	S1	6		467
556	P1	120	9333	
557	S1	6		467
558	P1	120	9333	
559	S1	6		467
560	P1	120	9333	
561	S1	6		467
562	P1	120	9333	
563	S1	6		467
564	P1	120	9333	
565	S1	6		467
566	S1	6		467
567	S1	6		467
568	S1	6		467
569	P1	120	9333	
570	S1	6		467
571	S1	6		467
572	S1	6		467
573	S1	6		467
574	P1	100	7778	
575	S1	6		467
576	S1	6		467
577	S1	6		467
578	S1	6		467
579	P1	100	7778	
580	S1	6		467
581	S1	6		467
582	S1	6		467
583	S1	6		467
584	P1	100	7778	
585	S1	6		467
586	S1	6		467
587	S1	6		467
588	S1	6		467
589	P1	100	7778	
590	S1	6		467
591	S1	6		467
592	S1	6		467
593	S1	6		467
594	P1	100	7778	
595	S1	6		467
596	S1	6		467
597	S1	6		467
598	S1	6		467
599	P1	100	7778	
600	S1	6		467
601	S1	6		467
602	S1	6		467
603	S1	6		467
604	P1	20	1556	
605	S1	6		467
606	S1	6		467
607	S1	6		467
608	S1	6		467
609	P1	20	1556	
610	S1	6		467
611	S1	6		467
612	S1	6		467
613	S1	6		467
614	P1	20	1556	
615	S1	6		467
616	S1	6		467
617	S1	6		467
618	S1	6		467
619	P1	20	1556	
620	S1	6		467
621	S1	6		467
622	S1	6		467
623	S1	6		467
624	S1	6		467
625	S1	6		467
626	S1	6		467
TOTALS CARRIED TO THIS SHEET			197556	27067

LOCATION	863 GEOGRID, TYPE P1	863 GEOGRID, TYPE P3	863 GEOGRID, TYPE S1
	SY	SY	SY
S.R. 7			
STA. 134+56 TO STA. 136+25	44587		9504
STA. 196+75 TO STA. 199+87	59080		18568
STA. 201+04 TO STA. 204+38.53	87305		20831
STA. 206+25 TO STA. 209+25	6500		2600
STA. 296+75 TO STA. 298+58		45733	8960
STA. 300+06 TO STA. 301+00	19141		3864
STA. 376+60 TO STA. 378+34 - S.R. 7 STA. 376+35 TO STA. 377+94 - RAMP I		125400	32325
STA. 378+64 TO STA. 379+90 - S.R. 7 STA. 378+30 TO STA. 379+75 - RAMP I	38640		14448
RAMP L			
STA. 380+25 TO STA. 389+25	29500		24000
S.R. 775			
STA. 57+75 TO STA. 61+25	197556		27067
TOTALS CARRIED TO GENERAL SUMMARY	482309	171133	162167

ITEM SPECIAL - PLUGGING AND VENTING GAS AND/OR OIL WELL

ALL ACTIVE OIL AND GAS WELLS LOCATED WITHIN THE LIMITS OF THE RIGHT OF WAY SHALL BE PLUGGED AND VENTED BY THE CONTRACTOR BEFORE ANY OTHER CONSTRUCTION IS STARTED IN THE VICINITY OF THE WELLS. THE TWO ACTIVE WELLS ALSO HAVE PIPING AND OTHER APPURTENANCES ATTACHED TO THE WELLS AND WITHIN THE ROW AND SHALL BE REMOVED AND DISPOSED APPROPRIATELY BY THE CONTRACTOR. PLEASE NOTE THAT ONE ACTIVE WELL WILL BE BURIED UNDER THE EMBANKMENT AND THE OTHER ACTIVE WELL WILL NEED PLUGGED AND CUT OFF BELOW EXISTING GRADE DUE TO THE FINAL GRADES OF THE ROAD BEING LOWER THAN THE EXISTING GROUND ELEVATION.

THE TREE CLEARING CONTRACTOR INSTALLED ORANGE SNOW FENCE AROUND THE PERIMETER OF THE ACTIVE GAS WELLS AND PIPING, SO AS NOT TO DISTURB THE FACILITIES. THE CONTRACTOR SHALL MAINTAIN THIS SNOW FENCE UNTIL THE WELLS ARE ABANDONED AND APPROVED BY THE ENGINEER.

ACCORDING TO ODNR WELL LOCATOR, THERE ARE TWO ACTIVE WELLS AND TWO ABANDONED WELLS WITHIN THE RIGHT OF WAY. THE TWO ABANDONED WELLS ARE REPORTED TO BE PREVIOUSLY PLUGGED. THE TYPE AND EXTENT OF PLUGGING OF THESE WELLS IS UNKNOWN. REFER TO SPECIAL PROVISION - OIL AND GAS WELL.

PRIOR TO DISTURBING THE OIL AND GAS WELLS, CONTRACTOR SHALL MEET WITH MYERS DRILLING (SEE CONTACT INFORMATION BELOW) TO LOCATE ALL THE ACTIVE WELLS, PIPING AND APPURTENANCES AND ALSO TO COORDINATE DISCONNECTION OF THE PIPING BY MYERS DRILLING AT THE ROW LIMITS. ODOT ENGINEER SHALL BE PRESENT AT THESE MEETINGS.

MYERS DRILLING
JOHN DIAL - PRESIDENT
826 20TH STREET
HUNTINGTON, WEST VIRGINIA 25703-1850
(304) 736-7431

ALL WORK TO PLUG AND VENTING OF THE WELLS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF OHIO, DEPARTMENT OF NATURAL RESOURCES, DIVISION OF OIL AND GAS. ALL WORK MUST BE PERFORMED UNDER THE SUPERVISION OF A REPRESENTATIVE OF THE DIVISION OF OIL AND GAS WHO MUST BE CONTACTED AT LEAST 14 DAYS IN ADVANCE OF THE DATE ON WHICH WORK IS EXPECTED TO BEGIN. PLUGGING SHALL BE ACCOMPLISHED WITH TYPE I PORTLAND CEMENT MEETING THE REQUIREMENTS OF ASTM C 150 WITH NO AIR ENTRAINMENT OR API STANDARDS OR ODNR STANDARDS FOR PORTLAND CEMENT.

THE CONTRACTOR SHALL FILE WELL PLUG PERMITS, WELL LOGS AND ABANDONMENT FORMS WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) AS REQUIRED BY THE OHIO REVISED CODE. ANY ADDITIONAL MATERIALS, LOGS, FEES OR FORMS REQUIRED BY ODNR SHALL BE CONSIDERED INCIDENTAL. ODNR'S ADDRESS IS AS FOLLOWS:

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
1939 FOUNTAIN SQUARE - BUILDING A
COLUMBUS, OHIO 43224
MATTHEW FULK 13/32 ODNR INSPECTOR
OFFICE (740) 588-0631

A LAWRENCE COUNTY ISSUED PLUGGING PERMIT MAY ALSO BE REQUIRED.

ALL OIL AND GAS WELLS LOCATED WITHIN THE RIGHT OF WAY, WHETHER PREVIOUSLY PLUGGED OR TO BE PLUGGED AS PART OF THIS PROJECT, SHALL BE VENTED AS DETAILED ON SHEET 41A. WELL API # 34087601070000 DOES NOT NEED PLUGGED OR VENTED BECAUSE IT WILL NOT BE UNDER THE ROADWAY AND IS OUTSIDE OF THE EMBANKMENT FOOTPRINT.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT UNIT PRICE (EACH) FOR ITEM SPECIAL, PLUGGING AND VENTING OIL AND GAS WELLS. THIS INCLUDES THE TWO ACTIVE OIL AND GAS WELLS AND THE ABANDONED WELL (LOCATED ON PROPOSED NEW CR 69 ALIGNMENT). PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, LABOR, TOOLS AND EQUIPMENT, PERMIT FEES AND ALL INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

IF OTHER OIL AND GAS WELLS ARE DISCOVERED DURING THE PROJECT AND NEED PLUGGED OR VENTED, THEY WILL BE HANDLED BY CHANGE ORDER.

ITEM SPECIAL - PLUGGING AND VENTING GAS
AND/OR OIL WELL ..... 3 EACH

CALCULATED SLP CHECKED ALB

GENERAL NOTES

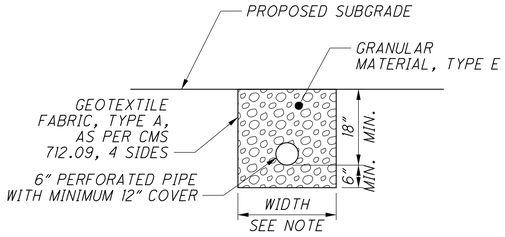
LAW-7-2.17

ITEM 605 - 6" ROCK CUT UNDERDRAINS, AS PER PLAN

THE CONTRACTOR SHALL INSTALL TRANSVERSE UNDERDRAINS AT TRANSITION LOCATIONS BETWEEN ROCK CUTS AND FILL EMBANKMENTS. TRANSVERSE UNDERDRAINS SHALL BE INSTALLED PER THE DETAILS PROVIDED IN THESE PLANS. ALL WORK AND FINAL LOCATIONS WILL BE AS DIRECTED BY THE ENGINEER. QUANTITIES AND ANTICIPATED LOCATIONS ARE LISTED IN THE TABLE BELOW.

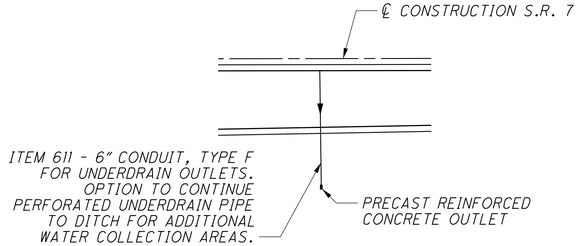
LOCATION	605	611	611	OUTLET	
	6" ROCK CUT UNDERDRAINS, AS PER PLAN	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	PRECAST REINFORCED CONCRETE OUTLET		
	FT	FT	EACH	STATION	SIDE
175+00.00	60	77	1	175+00.00	RT*
182+00.00	58	62	1	182+00.00	RT
190+50.00	49	70	1	190+50.00	RT
213+00.00	50	28	1	213+00.00	RT
237+00.00	55	54	1	237+50.00	RT
288+00.00	44	46	1	288+00.00	LT*
302+50.00	44	80	1	302+50.00	LT*
333+50.00	110	59	1	333+50.00	RT
344+00.00	110	35	1	344+00.00	RT
362+50.00	110	63	1	363+00.00	RT
TOTALS CARRIED TO GENERAL SUMMARY	690	574	10		
			* INDICATES OUTLET TO BE BROKEN BACK ALL OUTLET PIPES TO BE SLOPED AT 1% MINIMUM.		

ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED ABOVE, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 605 - 6" ROCK CUT UNDERDRAINS, AS PER PLAN.

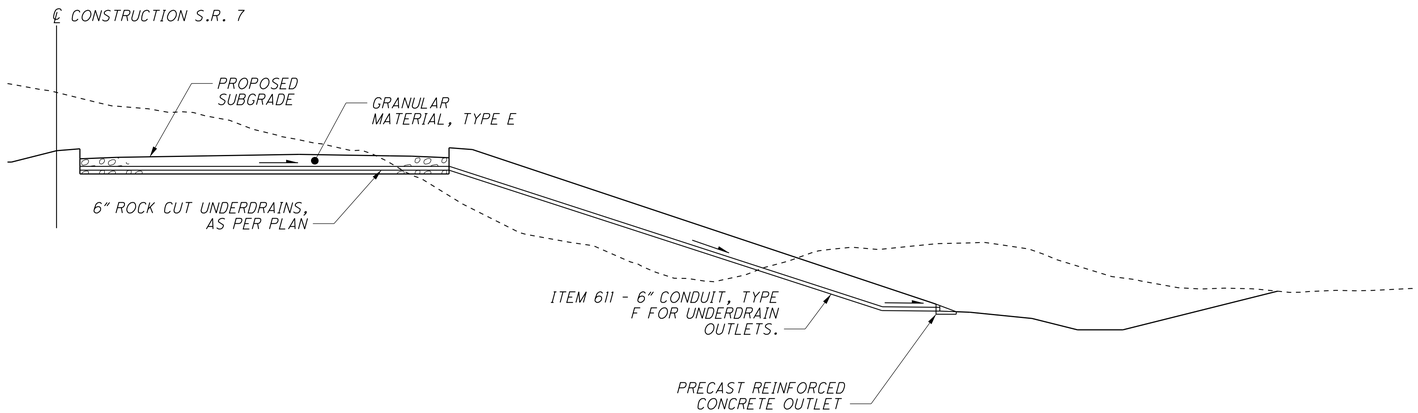


NOTE:
TRENCH WIDTH TO BE A MINIMUM 12" WIDER THAN THE OUTSIDE PIPE DIAMETER.

TRANSVERSE TRENCH DETAIL
NTS



PLAN
NTS



TYPICAL
NTS

CALCULATED SLP
CHECKED ALB

GENERAL NOTES

LAW-7-2.17

41B
1247

ITEM 614, MAINTAINING TRAFFIC

ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH INDIVIDUAL PROPERTY OWNERS TO MAINTAIN ACCESS, IF THE PROPERTY IS NOT DIRECTLY ACCESSIBLE FOR ANY REASON DURING CONSTRUCTION.

UNLESS OTHERWISE SPECIFIED IN THE PLAN, A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION ON SR 7 SHALL BE MAINTAINED AT ALL TIMES BY USE OF EXISTING SR 7, THE COMPLETED SR 7 BYPASS, AND TEMPORARY SURFACES USING ITEMS 410 AND 614.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

SEQUENCE OF CONSTRUCTION:
PHASE 1, SR 7: AT THE WEST END, PERMANENTLY CLOSE MELODY LANE. BEGIN CONSTRUCTION OF SR 7.

PHASE 1, LYNN LANE: CONSTRUCT LYNN LANE IN THE FIRST STEP, AS SHOWN ON SHEET 53. DEMOLISH DOGWOOD LANE PAVEMENT IN STEP 2, AS SHOWN ON SHEET 53A.

PHASE 1, SR 243: CLOSE SR 243 AND DETOUR TRAFFIC AS SHOWN ON SHEET 63. CONSTRUCT CR 69 FROM SR 243 TO CR 118 IN STEP 1. IN STEP 2, OPEN THE CONNECTION FROM SR 243 TO CR 118, AND COMPLETE CONSTRUCTION OD CR 69. STEP 1 MUST BE COMPLETED BY JULY 15, 2025. STEP 2 MUST BE COMPLETED BY JULY 15, 2026.

PHASE 1, SR 775: CONSTRUCT BYPASS PAVEMENT, WHILE LEAVING THE EXISTING INTERSECTION OF SR 7 AT SR 775 OPEN AT ALL TIMES. CONSTRUCT TEMPORARY PAVEMENT TO TIE-IN EB BYPASS PAVEMENT WITH EXISTING SR 7, AS SHOWN IN THE PLAN. DO NOT INSTALL SURFACE ASPHALT COURSE FROM STA 309+50 TO END PROJECT.

PHASE 2: OPEN THE BYPASS TO TRAFFIC. CLOSE SR 775 AND DETOUR TRAFFIC AS SHOWN ON SHEET 65. MAINTAIN 2-WAY TRAFFIC USING THE PROPOSED EASTBOUND BYPASS LANES CONSTRUCTED IN PHASE 1. COMPLETE CONSTRUCTION OF THE WB LANES ON THE BYPASS.

PHASE 3: MAINTAIN 2-WAY TRAFFIC USING THE PROPOSED WESTBOUND BYPASS PAVEMENT. COMPLETE CONSTRUCTION OF SR 775 INTERCHANGE.

FINAL - COMPLETE FINAL SURFACING AND TRAFFIC CONTROL WORK.

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

OTHER WORK RESTRICTIONS

OUTSIDE OF THE WORK WINDOW PERMIITED FOR THE ROAD CLOSURE WITH DETOUR, NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEAR'S	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD.

HOLIDAY/EVENT CLOSURE SCHEDULE

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPENED TO TRAFFIC
SUNDAY	12:00N ON FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N ON FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N ON MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N ON TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N ON WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00AM ON WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N ON THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N ON FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION. NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT DESIGNATED HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

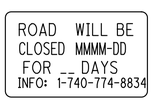
NOTICE OF CLOSURE SIGN

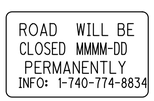
NOTICE OF CLOSURE SIGNS W20-H13 SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO THE PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE, IF APPLICABLE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.





NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

ITEM	DURATION OF CLOSURE	NOTICE DUE TO THE OFFICE OF COMMUNICATIONS
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES AND RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION AND TRAVEL PATTERN CHANGES		14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTICE TO OFFICE OF COMMUNICATIONS TIME TABLE.

ITEM 614 - WORKZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

* RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

* RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH APRIL 1. IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

CALCULATED MJH CHECKED KAE

MAINTENANCE OF TRAFFIC GENERAL NOTES

LAW-7-2.17

LANE VALUE CONTRACT (PN 127)

THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME THE DESCRIBED CRITICAL LANE/RAMP IS RESTRICTED FROM FULL USE BY THE TRAVELING PUBLIC WITHIN THE RESTRICTED TIME PERIOD. THE LANE VALUE CONTRACT TABLE IS PROVIDED BELOW. THE DISINCENTIVES WILL BE ASSESSED FOR ALL RESTRICTIONS OF THE CRITICAL WORK.

CRITICAL WORK IS SHOWN IN THE LANE VALUE CONTRACT TABLE. CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTIONS OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLE, OR THE ENTIRE PROJECT IF NOT OTHERWISE LISTED. UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE WITH SPECIFIED STRIPING AND SAFETY FEATURES IN PLACE.

LANE VALUE CONTRACT TABLE - LANE CLOSURES

SHEET NUMBER	ROUTE	MOVEMENT	RESTRICTED HOURS	DAYS	DISENCENTIVE (PER MINUTE)
48	SR 7	2-WAY, 1-LANE	6AM-8AM	WEEKDAYS	$90
			3PM-6PM	WEEKDAYS	
			ALL HOURS	HOLIDAYS	

LANE VALUE CONTRACT TABLE - DETOURS

SHEET NUMBER	CLOSURE	DETOUR ROUTE	DURATION (DAYS)	DISENCENTIVE AMOUNT PER DAY
65	SR 775	SR 7 TO BYPASS TO SR 243 TO SR 378 TO SR 217	365	$5000

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 WATER 160,000 M. GAL.

ITEM 614 - DETOUR SIGNING

THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND REMOVE DETOUR SIGNING SHOWN ON SHEETS 63 THRU 66. DETOUR SIGNS SHALL BE ERECTED AND/OR UNCOVERED PRIOR TO THE ROAD OR RAMP BEING CLOSED TO TRAFFIC BUT NO EARLIER THAN FOUR HOURS PRIOR TO THE CLOSURE. DETOUR SIGNS SHALL BE COVERED AND/OR REMOVED NO LATER THAN FOUR HOURS FOLLOWING THE ROAD OR RAMP RE-OPENING TO TRAFFIC.

PAYMENT FOR ALL MATERIAL, LABOR AND EQUIPMENT TO IMPLEMENT THE DETOUR SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

INTERIM COMPLETION DATE

THE CONTRACTOR SHALL COMPLETE ALL CRITICAL WORK AND SAFETY ITEMS ACCORDING TO THE INCENTIVE/ DISINCENTIVE CONTRACT TABLE. IN THE EVENT THE CONTRACTOR IMPEDES THE FLOW OF TRAFFIC SUBSEQUENT TO THE OPENING TO UNRESTRICTED TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE ACCORDING TO THE INCENTIVE/ DISINCENTIVE CONTRACT TABLE.

CRITICAL WORK IS SHOWN IN THE INCENTIVE/DISINCENTIVE CONTRACT TABLE. CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTION OF WORK OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLE. UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE AT THEIR FINAL DESIGN WIDTH ON PERMANENT LEVELING COURSE PAVEMENT (OR WORK ZONE PAVEMENT), ALONG WITH NO RESTRICTIONS WITHIN 2 FEET OF THE EDGE LINE ON THE SHOULDERS.

DISINCENTIVE AMOUNT: THE CONTRACTOR WILL BE PAID AN INCENTIVE OR WILL BE ASSESSED A DISINCENTIVE ACCORDING TO THE DISINCENTIVE CONTRACT TABLE. EXTENSIONS OF TIME WILL BE FOR CALENDAR DAYS AND CALCULATED IN ACCORDANCE WITH C&MS 108.06 EXCEPT AS FOLLOWS: NO EXTENSIONS OF TIME WILL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES (UNLESS SUCH DELAYS ARE INDUSTRY WIDE), AND LABOR STRIKES (UNLESS SUCH STRIKES ARE AREA WIDE).

DISINCENTIVE CONTRACT TABLE

CR 69 CONSTRUCTION LOCATION	DISINCENTIVE PER DAY	INTERIM DATE END
SR 243 TO CR 118*	$2,000	JULY 15, 2025
CR 69 WORK COMPLETE*	$2,000	JULY 15, 2026

* IF WORK ZONE MATERIALS ARE NECESSARY TO OPEN THESE ROADWAYS (INCLUDING BUT NOT LIMITED TO WORK ZONE PAVEMENT, WORK ZONE MARKINGS, PORTABEL BARRIER, ETC.) ALL MATERIAL AND LABOR REQUIRED TO OPEN THE ROADWAYS WILL BE CONSIDERED INCIDENTAL AND INCLUDED WITH ITEM 614, MAINTAINING OF TRAFFIC.

DELINEATION OF PORTABLE BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL AND ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND CONCRETE PERMANENT BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE ALONG TAPERS AND TRANSITION AREAS AND ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED". PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

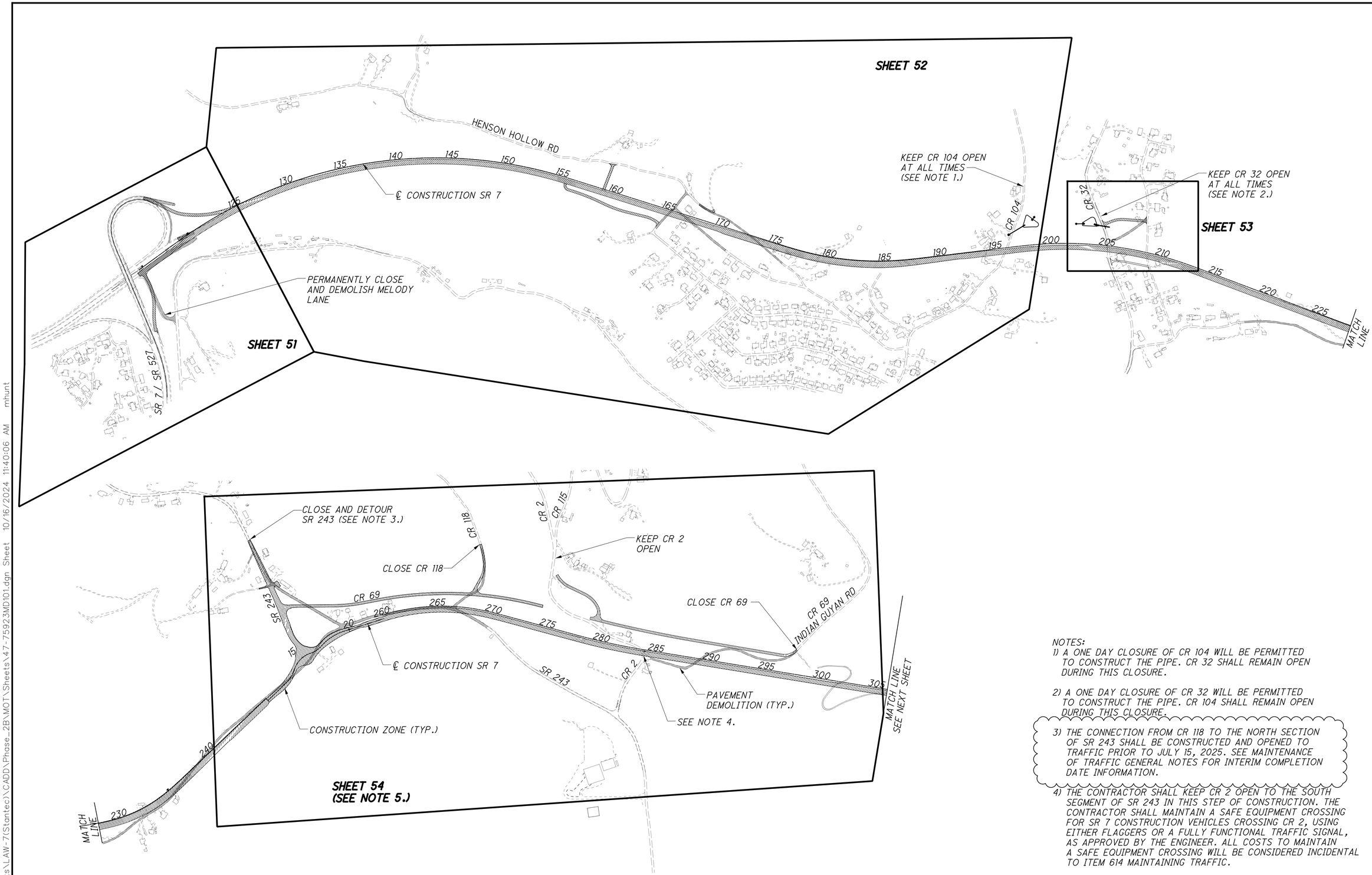
PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS. ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

CALCULATED MJH CHECKED KAE

MAINTENANCE OF TRAFFIC GENERAL NOTES

LAW-7-2.17

4.3
12.4.7



NOTES:

1) A ONE DAY CLOSURE OF CR 104 WILL BE PERMITTED TO CONSTRUCT THE PIPE. CR 32 SHALL REMAIN OPEN DURING THIS CLOSURE.

2) A ONE DAY CLOSURE OF CR 32 WILL BE PERMITTED TO CONSTRUCT THE PIPE. CR 104 SHALL REMAIN OPEN DURING THIS CLOSURE.

3) THE CONNECTION FROM CR 118 TO THE NORTH SECTION OF SR 243 SHALL BE CONSTRUCTED AND OPENED TO TRAFFIC PRIOR TO JULY 15, 2025. SEE MAINTENANCE OF TRAFFIC GENERAL NOTES FOR INTERIM COMPLETION DATE INFORMATION.

4) THE CONTRACTOR SHALL KEEP CR 2 OPEN TO THE SOUTH SEGMENT OF SR 243 IN THIS STEP OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A SAFE EQUIPMENT CROSSING FOR SR 7 CONSTRUCTION VEHICLES CROSSING CR 2, USING EITHER FLAGGERS OR A FULLY FUNCTIONAL TRAFFIC SIGNAL, AS APPROVED BY THE ENGINEER. ALL COSTS TO MAINTAIN A SAFE EQUIPMENT CROSSING WILL BE CONSIDERED INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.

5) PHASE 1A IS SHOWN ON THIS SHEET. SEE SHEET 54A FOR PHASE 1B CONSTRUCTION.

HORIZONTAL SCALE IN FEET
0 200 400 800

CALCULATED MJH
CHECKED KAE

MAINTENANCE OF TRAFFIC PLAN
PHASE 1 - WEST END

LAW-7-2.17

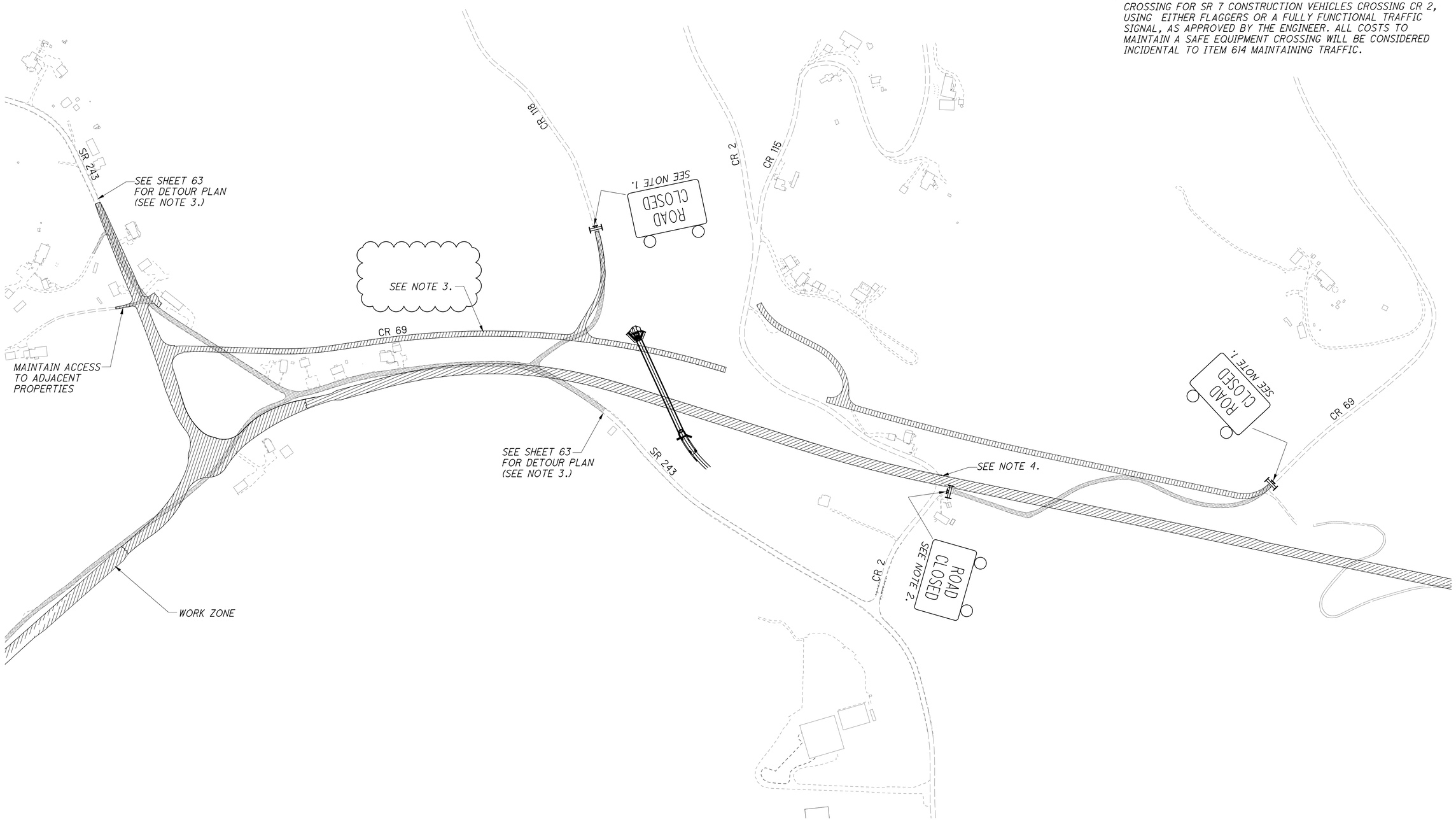
47
1247

NOTES:
1) INSTALL BARRICADES AT ROAD CLOSURE POINTS AND ADVANCED SIGNING IN CONFORMANCE WITH STANDARD DRAWING MT-101.60.

2) PLACE BARRICADES PER STANDARD DRAWING MT-101.60. ADVANCE WARNING SIGNING MAY BE OMITTED.

3) SR 243 MAY BE CLOSED FROM THE FIRST DAY OF CONSTRUCTION UNTIL JULY 15, 2026. HOWEVER, THE CONNECTION FROM SR 243 (TO AND FROM THE NORTH) TO CR 118 SHALL BE RESTORED ON OR BEFORE JULY 15, 2025. SEE MAINTENANCE OF TRAFFIC GENERAL NOTES FOR INTERIM COMPLETION DATE INFORMATION.

4) THE CONTRACTOR SHALL MAINTAIN A SAFE EQUIPMENT CROSSING FOR SR 7 CONSTRUCTION VEHICLES CROSSING CR 2, USING EITHER FLAGGERS OR A FULLY FUNCTIONAL TRAFFIC SIGNAL, AS APPROVED BY THE ENGINEER. ALL COSTS TO MAINTAIN A SAFE EQUIPMENT CROSSING WILL BE CONSIDERED INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.



HORIZONTAL SCALE IN FEET
0 100 200 400

CALCULATED MJH
CHECKED KAE

MAINTENANCE OF TRAFFIC PLAN
PHASE 1 - SR 7 / SR 243 INTERSECTION

LAW-7-2.17

54
1247

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SHEET NUM.																	PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
34	35	36	37	38	41	72	73	74	78	79	82	83	84	629	629A	1041	01/NHS/01						
																						ROADWAY	
LS																	LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	34
						1											1	202	20010	1	EACH	HEADWALL REMOVED	
	141					1,229	871				27,852	14,596	5,369	248			50,396	202	23000	50,396	SY	PAVEMENT REMOVED	
						1,955	307							253	21		2,536	202	35100	2,536	FT	PIPE REMOVED, 24" AND UNDER	
						855	130							48			1,033	202	35200	1,033	FT	PIPE REMOVED, OVER 24"	
						3,881	2,619										6,500	202	38000	6,500	FT	GUARDRAIL REMOVED	
						2											2	202	58000	2	EACH	MANHOLE REMOVED	
						6											6	202	58100	6	EACH	CATCH BASIN REMOVED	
					3												3	SPECIAL	20264000	3	EACH	PLUGGING AND VENTING GAS AND/OR OIL WELL	41
	99																99	SPECIAL	20270000	99	FT	FILL AND PLUG EXISTING CONDUIT, 21" AND 36"	35
						4,965	1,834										6,799	202	75000	6,799	FT	FENCE REMOVED	
														1			1	202	75050	1	EACH	GATE REMOVED	
						381	291	5,039,677	267	1,101				3,140	922		5,045,779	203	10000	5,045,779	CY	EXCAVATION	
						334	291	4,523,577	1,932	195				1,760	3,330		4,531,419	203	20000	4,531,419	CY	EMBANKMENT	
								582,155									582,155	203	20001	582,155	CY	EMBANKMENT, AS PER PLAN (TYPE C)	38
								7,459									7,459	203	22000	7,459	CY	EMBANKMENT, USING NATURAL SOILS, 703.16.A	
12																	12	SPECIAL	20307500	12	EACH	PNEUMATIC PIEZOMETER	34
								68,291			201,919	34,615	21,411	1,826	376		328,438	204	10000	328,438	SY	SUBGRADE COMPACTION	
								16,878									16,878	204	13000	16,878	CY	EXCAVATION OF SUBGRADE	
								16,878									16,878	204	30010	16,878	CY	GRANULAR MATERIAL, TYPE B	
110																	110	204	45000	110	HOUR	PROOF ROLLING	
				520				68,055									68,575	204	50000	68,575	SY	GEOTEXTILE FABRIC	
			LS														LS	208	10000	LS		PRE-BLAST CONDITION SURVEY	
			LS														LS	208	12000	LS		BLASTING CONSULTANT	
			LS														LS	208	13000	LS		AIR BLAST AND NOISE CONTROL	
			LS														LS	208	14000	LS		VIBRATION CONTROL AND MONITORING	
			LS														LS	208	16000	LS		HYDROLOGIST	
		258															258	209	50201	258	STA	LINEAR GRADING, AS PER PLAN	36
						18,840.9	1,420.3										20,261.2	606	15050	20,261.2	FT	GUARDRAIL, TYPE MGS	
						1,037.5	5,100										6,137.5	606	15100	6,137.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
															137.5		137.5	606	15200	137.5	FT	GUARDRAIL, TYPE MGS HALF POST SPACING WITH LONG POSTS	
						137.5	237.5										375	606	15300	375	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
						100	50										150	606	17350	150	FT	GUARDRAIL, TYPE MGS, 25' LONG-SPAN	
						24	12										36	606	26150	36	EACH	ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)	
						15	6								1		22	606	26550	22	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
						24	7										31	606	35002	31	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
						3	2										5	606	35102	5	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
						2											2	606	60012	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	
						1											1	606	60022	1	EACH	IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL),	
																						(55 MPH, 69" HAZARD WIDTH)	
																43,587	43,587	607	15000	43,587	FT	FENCE, TYPE 47	
																15,174	15,174	607	23000	15,174	FT	FENCE, TYPE CLT	
							4										4	607	98100	4	EACH	FENCE, MISC.: GATE, AS PER PLAN	37
						6,989	1,087										8,076	622	10160	8,076	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
						3	1										4	622	25050	4	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
																	3	623	38500	3	EACH	MONUMENT ASSEMBLY, TYPE C	
																	106	623	40500	106	EACH	REFERENCE MONUMENT, TYPE A	
																	30	623	40900	30	EACH	MONUMENT, MISC.: RIGHT-OF-WAY MONUMENT RESET	34
																	LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
																	LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT	
																						VERIFICATION AND REPORT	
																4	4	625	32000	4	EACH	GROUND ROD	
							1							3			4	SPECIAL	69050350	4	EACH	MAILBOX REMOVED AND RESET	37
					482,309												482,309	863	00100	482,309	SY	GEOGRID, TYPE P1	
					171,133												171,133	863	00300	171,133	SY	GEOGRID, TYPE P3	
					162,167												162,167	863	00600	162,167	SY	GEOGRID, TYPE S1	
								524,387									524,387	863	00800	524,387	CY	REINFORCED EMBANKMENT	
																	LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	

CALCULATED SLP
CHECKED ALB

GENERAL SUMMARY

LAW-7-2.17

SHEET NUM.														PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
36	37	38	41B	72	78	79	80	81	629	629A	678			01/NHS/01						
																			EROSION CONTROL	
						117								117	601	11000	117	SY	RIPRAP, TYPE D	
4					133						38			175	601	21050	175	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					9,811					1,388				11,199	601	21100	11,199	SY	SLOPE PROTECTION, MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING	37
																			MAT, TYPE 3 AND PERCUSSION DRIVEN EARTH ANCHORS	
					2,641	180								2,821	601	23000	2,821	SY	ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1	
					14									14	601	27001	14	CY	DUMPED ROCK FILL, TYPE C, AS PER PLAN	34
						533								533	601	32000	533	CY	ROCK CHANNEL PROTECTION, TYPE A WITH FILTER	
					1,938	78								3,163	601	32100	3,163	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
10					3,083	157								3,407	601	32200	3,407	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
					78									78	601	32300	78	CY	ROCK CHANNEL PROTECTION, TYPE D WITH FILTER	
		1,247												1,247	601	34200	1,247	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	
														2,157	601	45030	2,157	SY	DETENTION BASIN FILTER	
	14													14	659	00100	14	EACH	SOIL ANALYSIS TEST	
	468													468	659	00300	468	CY	TOPSOIL	
	1,141			1,615										741	659	00301	1,741	CY	TOPSOIL, AS PER PLAN	37
					1,342		1,900	4,355	5,320	808				1,182,427	659	00540	1,182,427	SY	SEEDING AND MULCHING, CLASS 3C	
	59,221													59,221	659	14000	59,221	SY	REPAIR SEEDING AND MULCHING	
	59,221													59,221	659	15000	59,221	SY	INTER-SEEDING	
	166													166	659	20000	166	TON	COMMERCIAL FERTILIZER	
	244.71													244.71	659	31000	244.71	ACRE	LIME	
	6,556													6,556	659	35000	6,556	MGAL	WATER	
	2,665													2,665	659	40000	2,665	MSF	MOWING	
	4,207													9,135	670	00500	9,135	SY	SLOPE EROSION PROTECTION	
					10,580									10,580	670	00700	10,580	SY	DITCH EROSION PROTECTION	
					13,171				36					13,207	670	00720	13,207	SY	DITCH EROSION PROTECTION MAT, TYPE B	
														LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
														LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
														LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
														4,420,289	832	30000	4,420,289	EACH	EROSION CONTROL	
					18,348									18,348	836	10000	18,348	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
					9,192									9,192	836	10020	9,192	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2	
					6,406									6,406	836	10030	6,406	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3	
																			DRAINAGE	
						34.4								37.4	602	20000	37.4	CY	CONCRETE MASONRY	
											32,781			32,781	605	11100	32,781	FT	6" SHALLOW PIPE UNDERDRAINS	
1,500											2,370			3,870	605	13300	3,870	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
														215	605	13301	215	FT	6" UNCLASSIFIED PIPE UNDERDRAINS, AS PER PLAN	670
750														750	605	13402	750	FT	6" UNCLASSIFIED PIPE UNDERDRAINS FOR SPRINGS	
											19,922			19,922	605	13500	19,922	FT	6" ROCK CUT UNDERDRAINS	
			690											690	605	13501	690	FT	6" ROCK CUT UNDERDRAINS, AS PER PLAN	41B
											99,751			99,751	605	14000	99,751	FT	6" BASE PIPE UNDERDRAINS	
1,650	3,391													5,041	605	31100	5,041	FT	AGGREGATE DRAINS	
			574								2,970			3,544	611	00510	3,544	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
150											2,195			2,345	611	00900	2,345	FT	6" CONDUIT, TYPE B	
150														150	611	01400	150	FT	6" CONDUIT, TYPE E	
250														250	611	01500	250	FT	6" CONDUIT, TYPE F	
									76					76	611	04900	76	FT	12" CONDUIT, TYPE D	
							92							92	611	05700	92	FT	15" CONDUIT, TYPE A, 706.02, 707.33	
						1,644								1,644	611	05900	1,644	FT	15" CONDUIT, TYPE B	
						655								874	611	06100	874	FT	15" CONDUIT, TYPE C	
						307								307	611	06700	307	FT	15" CONDUIT, TYPE F	
						953								953	611	06700	953	FT	15" CONDUIT, TYPE F, 707.21, 707.33	
						50								50	611	07400	50	FT	18" CONDUIT, TYPE B	

CALCULATED SLP
CHECKED ALB

GENERAL SUMMARY

LAW-7-2.17

SHEET NUM.															PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
35	36	38	41B	72	73	74	79	80	82	83	84	629	629A	678	01/NHS/01						
																				DRAINAGE (CONT.)	
							777								777	611	07600	777	FT	18" CONDUIT, TYPE C	
							477								477	611	08900	477	FT	21" CONDUIT, TYPE B	
							88								88	611	09400	88	FT	21" CONDUIT, TYPE D	
							20								20	611	09700	20	FT	21" CONDUIT, TYPE F	
							65								65	611	09700	65	FT	21" CONDUIT, TYPE F, 707.21	
								384							384	611	10200	384	FT	24" CONDUIT, TYPE A, 707.01, 707.02, 707.33	
							69								69	611	10400	69	FT	24" CONDUIT, TYPE B	
							10								10	611	10600	10	FT	24" CONDUIT, TYPE C	
							20								20	611	11200	20	FT	24" CONDUIT, TYPE F	
							224								224	611	11200	224	FT	24" CONDUIT, TYPE F, 707.21	
							91								91	611	11900	91	FT	27" CONDUIT, TYPE B	
							196								196	611	12100	196	FT	27" CONDUIT, TYPE C	
							18								18	611	12700	18	FT	27" CONDUIT, TYPE F	
							24								24	611	12700	24	FT	27" CONDUIT, TYPE F, 707.21	
							229								229	611	13400	229	FT	30" CONDUIT, TYPE B	
							426								426	611	13600	426	FT	30" CONDUIT, TYPE C	
								181							181	611	16200	181	FT	36" CONDUIT, TYPE A, 707.18, 706.01, 707.33 OR 48" 707.18, 706.02, 707.33	
							270								270	611	16400	270	FT	36" CONDUIT, TYPE B	
							12								12	611	16600	12	FT	36" CONDUIT, TYPE C	
							83								83	611	17200	83	FT	36" CONDUIT, TYPE F	
								128							128	611	19200	128	FT	42" CONDUIT, TYPE A, 707.01, 707.02, 707.33	
							441								441	611	19400	441	FT	42" CONDUIT, TYPE B	
								894							894	611	19600	894	FT	42" CONDUIT, TYPE C	
								47							47	611	19904	47	FT	42" CONDUIT, TYPE F	
								426							426	611	22400	426	FT	54" CONDUIT, TYPE B	
								325							325	611	22600	325	FT	54" CONDUIT, TYPE C	
								428							428	611	23600	428	FT	60" CONDUIT, TYPE A, 707.01, 707.04, 707.18	
								1,582							1,582	611	23600	1,582	FT	60" CONDUIT, TYPE A, 707.02, 707.04	
								100							100	611	23600	100	FT	60" CONDUIT, TYPE A, 707.02, 707.33	
								377							377	611	25000	377	FT	66" CONDUIT, TYPE A, 707.02, 707.04	
								8							8	611	98180	8	EACH	CATCH BASIN, NO. 3A	
								6							6	611	98230	6	EACH	CATCH BASIN, NO. 4	
								3							3	611	98260	3	EACH	CATCH BASIN, NO. 4 WITHOUT APRON	
								3							3	611	98270	3	EACH	CATCH BASIN, NO. 4A	
								9							9	611	98300	9	EACH	CATCH BASIN, NO. 5	
								3							3	611	98341	3	EACH	CATCH BASIN, NO. 5A	
								4							4	611	98350	4	EACH	CATCH BASIN, NO. 5A, AS PER PLAN	37
								17							17	611	98410	17	EACH	CATCH BASIN, NO. 8	
								1							1	611	98434	1	EACH	CATCH BASIN, NO. 8A	
								1							1	611	98435	1	EACH	CATCH BASIN, NO. 8A, AS PER PLAN	37
								1							1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
						4									4	611	98511	4	EACH	CATCH BASIN, NO. 2-3, AS PER PLAN	670
								14							14	611	99114	14	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
								1							1	611	99574	1	EACH	MANHOLE, NO. 3	
	4		10											23	37	611	99710	37	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																				PAVEMENT	
				184	103				3,404	883	104	92			4,770	252	01500	4,770	FT	FULL DEPTH PAVEMENT SAWING	
									21,202	545					21,747	254	01000	21,747	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3.25"	
5											1,617	56			1,678	301	56000	1,678	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
18									34,877	5,927		28			40,850	302	56000	40,850	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
26						53			33,171	5,620	3,377	299	74		42,620	304	20000	42,620	CY	AGGREGATE BASE	
17									23,995	3,623	2,071	87			29,793	407	10000	29,793	GAL	TACK COAT	
		70													70	411	10000	70	CY	STABILIZED CRUSHED AGGREGATE	
2											654	23			679	441	50000	679	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
3											916	32			951	441	50300	951	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
												20			20	441	70500	20	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	

CALCULATED SLP
CHECKED ALB

GENERAL SUMMARY

LAW-7-2.17

SHEET NUM.												PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
35	36	38	72	73	81	82	83	84	629	774		01/NHS/01						
																	PAVEMENT (CONT.)	
	796											796	441	70801	796	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, (449), (UNDER GUARDRAIL), AS PER PLAN	36
						21,728	3,419					25,147	442	00100	25,147	CY	ANTI-SEGREGATION EQUIPMENT	
7						13,273	2,054		9			15,343	448	10100	15,343	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
5						8,456	1,224		6			9,691	442	10300	9,691	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447)	
						280	143					423	443	12000	423	CY	STONE MATRIX ASPHALT CONCRETE, 12.5 MM, PG76-22M, (446)	
								455				455	452	12010	455	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC IP	
								2,656				2,656	609	12000	2,656	FT	COMBINATION CURB AND GUTTER, TYPE 2	
							204	1,922				2,126	609	26000	2,126	FT	CURB, TYPE 6	
								382				382	609	31000	382	FT	COMBINATION CURB AND GUTTER, TYPE 9	
							42	736				778	609	72000	778	SY	CONCRETE MEDIAN	
																	LIGHTING	777
																	TRAFFIC CONTROL	713
			115	65								180	626	00102	180	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
			126	32								158	626	00102	158	EACH	BARRIER REFLECTOR, TYPE 1, UNIDIRECTIONAL	
																	TRAFFIC SIGNALS	766
																	LANDSCAPING	
										7		7	661	20080	7	EACH	DECIDUOUS SHRUB, 4' HEIGHT, RHUS AROMATICA	
										796		796	661	99930	796	SY	PLANTING, MISC.:, 10" GRAY WASHED RIVER STONE MULCH	774
										49		49	662	31000	49	GAL	LANDSCAPE WATERING	
																	RETAINING WALLS (001)	707
																	NOISE BARRIERS	684
																	BUILDING DEMOLITION	
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, 1.5 - STORY FRAME HOUSE, POOL	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, (2) 1 - STORY FRAME HOUSES, 2 SHEDS	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, ABANDONED 1 - STORY FRAME HOUSE, 2 SHEDS, PROPANE TANK	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, 1 - STORY FRAME HOUSE, POOL, DECK	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, WOOD SHED, BARN	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, 1 - STORY FRAME HOUSE, 2 - STORY BARN, GARAGE, 2 SHEDS, TRAILER PORT, DOG HOUSE, STEEL BRIDGE	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, SEPTIC TANK, WELL, LEACH FIELD	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, 1.5 - STORY FRAME HOUSE, POOL	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, SHED	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, 2 - STORY METAL BUILDING	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, 2 - STORY BRICK FRAME HOUSE, 1 - STORY DUPLEX, SHED	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, 2 - STORY BRICK FRAME HOUSE, GARAGE, PROPANE TANK	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, 1.5 - STORY FRAME HOUSE, (2) METAL OUT BUILDINGS, PROPANE TANK	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, GARAGE, CAR PORT	37A
					LS							LS	202	56001	LS		BUILDING DEMOLISHED, AS PER PLAN, GARAGE, MOBILE HOME	37A
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0251)	796
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0370)	820, 844
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0376)	849
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0387)	873, 897
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0510)	899
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0563)	910
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0711)	935
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0713L)	964
																	STRUCTURE OVER 20 FOOT SPAN (LAW-7-0713R)	993
																	STRUCTURE OVER 20 FOOT SPAN (LAW-775-0105)	1018

CALCULATED SLP CHECKED ALB

GENERAL SUMMARY

LAW-7-2.17

SHEET NUM.	PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	01/NHS/01						
						MAINTENANCE OF TRAFFIC	*45*
						INCIDENTALS	
	145,000	*100*	*51100*	*145,000*	*EACH*	*DEPARTMENT'S SHARE OF THE DISPUTE RESOLUTION BOARD*	
	LS	*107*	*05000*	*LS*		*PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND*	
	LS	*108*	*10000*	*LS*		*CPM PROGRESS SCHEDULE*	
	1,450	*SPECIAL*	*HH0050*	*1,450*	*EACH*	*DEPARTMENT'S SHARE FACILITATED PARTNERING COSTS*	
	LS	*614*	*11000*	*LS*		*MAINTAINING TRAFFIC*	
	42	*619*	*16021*	*42*	*MNTH*	*FIELD OFFICE, TYPE C, AS PER PLAN*	*37A*
	LS	*623*	*10000*	*LS*		*CONSTRUCTION LAYOUT STAKES AND SURVEYING*	
	LS	*624*	*10000*	*LS*		*MOBILIZATION*	

CALCULATED SLP CHECKED ALB

GENERAL SUMMARY

LAW-7-2.17

70A
1247

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SUBSUMMARY

CALCULATED SLP
CHECKED ALB

REF NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	202 PAVEMENT REMOVED (SY)	202 PIPE REMOVED, 24" AND UNDER (FT)	202 PIPE REMOVED, OVER 24" (FT)	202 CATCH BASIN REMOVED (EACH)	202 MANHOLE REMOVED (EACH)	202 FENCE REMOVED (FT)	202 HEADWALL REMOVED (EACH)	202 GUARDRAIL REMOVED (FT)	203 EXCAVATION (CY)	203 EMBANKMENT (CY)	252 FULL DEPTH PAVEMENT SAWING (FT)	606 GUARDRAIL, TYPE MGS (FT)	606 GUARDRAIL, BARRIER DESIGN, TYPE MGS	606 ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016) (EACH)	606 ANCHOR ASSEMBLY, MGS TYPE T (EACH)	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 (EACH)	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 (EACH)	606 GUARDRAIL, TYPE MGS WITH LONG POSTS (FT)	606 GUARDRAIL, TYPE MGS, 25' LONG SPAN (FT)	606 IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL) (EACH)	606 IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL) (EACH)	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D (FT)	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D (EACH)	626 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL (EACH)	626 BARRIER REFLECTOR, TYPE 1, UNIDIRECTIONAL (EACH)	659 SEEDING AND MULCHING, CLASS 3C (SY)
		S.R. 7																													
1-GR	117	231+00.00	232+19.25	RT												112.9			1									2		
2-GR	117	231+00.00	234+07.67	RT												258.2		1										3		
1-R	117	241+95.67	241+99.64	LT		31																								
1-R	119	243+75.50	244+14.09	LT			46																							
2-R	119	246+21.17	247+97.69	RT/LT		73																								
3-R	119	252+16.36	253+16.81	RT/LT		66																								
1-R	122	255+98.85	256+45.05	LT		49	47																							
2-R	122	258+11.16	258+31.33	LT		21																								
3-R	122	262+46.96	262+59.82	RT/LT		31																								
4-R	122	266+09.87	266+12.79	RT/LT		33																								
1-R	123	261+62.29	262+59.82	RT/LT		93																								
1-GR	125	269+50.06	279+00.00	RT												898.6		1										10		
1-GR	127	279+00.00	288+96.71	RT												951.4		1										10		
1-R	127	284+44.50	284+52.98	RT		33																								
2-R	127	286+68.39	288+15.62	RT						152																				
1-GR	129	293+96.71	297+61.10	RT												287.5		1		1								4		
2-GR	129	296+02.12	297+78.80	RT												100		1		1								2		
3-GR	129	300+58.85	301+85.75	RT												50		1		1								2		
4-GR	129	300+66.85	303+00.00	RT												206.4				1								3		
1-R	129	299+42.94	303+00.00	RT/LT						988																				
1-GR	131	303+00.00	308+18.64	RT												468.6		1										5		
2-GR	131	314+04.56	315+00.00	RT												45.4		1											1	
1-R	131	303+00.00	307+80.07	RT						502																				
1-GR	133	315+00.00	322+62.99	RT												742.1			1										8	
2-GR	133	314+84.03	320+62.50	LT												662.5		1	1									10		
2-R	133	320+97.42	321+04.49	RT			41																							
1-GR	135, 136	328+52.06	339+00.00	RT												987.2		1										11		
2-GR	135, 136	338+30.00	339+00.00	LT												57.5			1									1		
1-GR	138	339+00.00	342+55.00	LT												305		1										4		
2-GR	138	339+00.00	344+62.77	RT												550.3			1									6		
1-GR	140	360+47.16	363+00.00	RT												203.2		1										3		
2-GR	140	361+69.71	363+00.00	LT												117.8			1									2		
1-GR	142	363+00.00	375+00.00	LT												1175.1						487.5	50					12		
2-GR	142	363+00.00	375+00.00	RT												1203.1												12		
3-GR	142	373+65.62	376+27.70	RT												86.7									1			1		
4-GR	142	374+17.32	375+00.00	RT													38.7							1				2		
1-GR	144	375+00.00	376+57.16	LT												157.1					1							2		
2-GR	144	375+00.00	376+38.06	RT												75.0	36.3			1								3		
3-GR	144	375+00.00	376+27.70	RT												100.8				1								2		
4-GR	144	380+39.68	385+71.47	LT												437.5		1		1								5		
5-GR	144	380+17.76	384+53.39	LT												300.0	62.5			1				1				4		
6-GR	144	380+08.36	381+94.72	RT												175.0			1		1							2		
7-GR	144	379+93.59	381+64.43	RT												162.5			1		1							2		
8-GR	144	375+00.00	376+37.71 (RAMP J)	RT												106.2				1								2		
1-R	144	380+48.03	387+00.00	RT/LT								1504																		
2-R	144	385+96.65	387+32.41	LT			135																							
1-R	146	387+00.00	399+00.00	RT								1222																		
2-R	146	392+40.07	399+00.00	RT																							672.37			
1-GR	148	401+87.56	411+00.00	LT												901.5			1									10		
2-GR	148	406+11.58	406+40.49	RT												37.5			1									4		
1-R	148	399+00.00	406+11.58	RT																							695.54	1		
2-R	148	399+00.00	406+40.49	RT								759																		
1-GR	150	411+00.00	422+63.69	RT												1098.5		1										11		
1-GR	152	426+35.50	431+94.02	LT												500.0		1	1									6		
TOTALS THIS SHEET					0	430	269	0	0	1642	0	3485.00	0	0	0	13721.05	137.5	15	11	9	3	487.5	50	2	1	1367.91	1	41	126	0
TOTALS FROM SHEET 71					1228.95	1525	586	6	2	3323	1	395.70	380.79	333.97	183.80	5119.82	0	9	4	15	0	550	50	0	0	5620.30	2	74	0	614.84
TOTALS CARRIED TO GENERAL SUMMARY					1229	1955	855	6	2	4965	1	3881	381	334	184	18840.9	137.5	24	15	24	3	1037.5	100	2	1	6989	3	115	126	1615

REF NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	202 PAVEMENT REMOVED SY	202 PIPE REMOVED, 24" AND UNDER FT	202 PIPE REMOVED, OVER 24" FT	202 FENCE REMOVED FT	202 GUARDRAIL REMOVED FT	203 EXCAVATION CY	203 EMBANKMENT CY	252 FULL DEPTH PAVEMENT SAWING FT	606 GUARDRAIL, TYPE MGS FT	606 GUARDRAIL, BARRIER DESIGN, TYPE MGS	606 ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016) EACH	606 ANCHOR ASSEMBLY, MGS TYPE T EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 EACH	606 GUARDRAIL, TYPE MGS WITH LONG POSTS FT	606 GUARDRAIL, TYPE MGS, 25' LONG SPAN FT	607 FENCE, MISC.: GATE, AS PER PLAN EACH	622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D FT	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D EACH	626 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL EACH	626 BARRIER REFLECTOR, TYPE 1, UNIDIRECTIONAL EACH	659 SEEDING AND MULCHING, CLASS 3C SY	690 SPECIAL - MAILBOX REMOVED AND RESET EACH
		RAMP C																									
1-GR	419	116+33.24	119+18.34	LT									237.5		1										6		
2-GR	419	116+44.86	118+54.66	RT										200		1									8		
1-R	419	116+44.86	117+44.09	RT					95																		
2-R	419	116+33.24	118+90.55	LT					268																		
		RAMP D																									
1-GR	425	120+31.65	120+82.54	LT										37.5		1											
1-R	425	115+32.16	120+53.07	RT/LT					575																		
2-R	425	118+99.37	120+44.70	LT	269.64					90	90	103.00														388.41	
3-R	425	120+37.66	120+82.54	LT					45																		
		RAMP I																									
1-GR	431	374+13.80	376+38.42	LT									200				1								3		
2-GR	431	379+71.95	380+67.98	LT									120.3					1							2		
3-GR	431	379+71.95	380+68.61	RT									112.5					1							2		
		RAMP K																									
1-GR	442	385+17.88	389+72.34 (RAMP J)	RT									450			1									7		
2-GR	442	389+99.04	389+63.15	RT									37.5		1		1										
1-R	442	385+36.47	391+87.78	LT				1025																			
		RAMP L																									
1-GR	457	379+91.22	381+45.06	RT									137.5				1								2		
2-GR	457	380+26.72	381+25.36	LT									125			1									2		
1-R	457	381+42.58	392+40.09 (S.R. 7)	RT																		1086.47	1				
		BRENTWOOD EMERGENCY ACCESS																									
1-GR	465	13+68.33	20+40.17	RT												2			662.5					14			
1-R	465	13+80.00	13+80.00	RT/LT																	1						
2-R	465	22+50.00	22+50.00	RT/LT																	1						
		HENSON HOLLOW EMERGENCY ACCESS																									
1-R	473	10+40.00	10+40.00	RT/LT																	1						
2-R	473	12+26.00	12+26.00	RT/LT																	1						
		LYNN LANE																									
1-GR	482	12+73.76 (C.R. 32)	11+00.09	RT											2				62.5					2			
1-R	482	12+02.84 (C.R. 32)	12+34.08 (C.R. 32)	RT		33																					
2-R	482	10+14.78	10+15.76	RT		16																					
3-R	482	12+00.99	13+38.18	RT	329.24					109.75	109.75															480.30	
4-R	482	13+66.31	14+05.59	RT		64																					
		S.R. 243																									
1-R	490	16+28.71	17+79.21	RT		154																					
		C.R. 69																									
1-GR	502	13+44.60 (S.R. 243)	15+40.63	RT											2				512.5					6			
1-R	502	10+78.02	10+84.62	RT			90																				
1-GR	504	25+62.55	26+62.10	LT											1				50					1			
2-GR	504	27+88.11	32+48.52	LT											1				412.5					5			
1-GR	506	48+87.50	50+62.50	LT											1				75					2			
1-R	506	49+63.80	49+84.53	LT				124																			
		C.R. 118																									
1-GR	547	10+21.73	10+90.52	LT											1				50					1			
2-GR	547	10+21.69	14+76.01	RT											1				450					5			
1-R	547	10+18.85	10+32.01	RT/LT			40																				
2-R	547	13+29.48	13+44.97	RT/LT		40																					
		C.R. 2																									
1-R	553	15+66.70	16+65.73	LT	271.79					90.60	90.60															271.79	
		S.R. 775																									
1-GR	559	45+40.14	53+77.08	RT															712.5					8			
2-GR	559	45+47.80	53+59.80	LT															687.5					7			
3-GR	559	54+74.58	55+13.98	LT													1		12.5					1			
4-GR	559	54+99.28	55+38.67	RT													1		12.5					1			
1-R	559	45+40.14	53+68.24	RT					834																		
2-R	559	45+47.80	53+45.58	RT/LT					802																		
1-GR	560	58+48.15	70+43.05	LT											1		1		1112.5					12			
2-GR	560	58+72.85	62+37.03	RT													1		287.5	50							
1-R	560	60+25.71	65+36.85	LT				685																			
2-R	560	70+34.96	70+55.91	LT																							1
TOTALS					870.67	307	130	1834	2619	290.35	290.35	103	1420.3	237.50	12	6	7	2	5100.0	50.0	4	1086.47	1	65	32	1140.50	1
TOTALS CARRIED TO GENERAL SUMMARY					871	307	130	1834	2619	291	291	103	1420.3	237.5	12	6	7	2	5100.0	50.0	4	1087	1	65	32	1141	1

CALCULATED SLP
CHECKED ALB

SUBSUMMARY

LAW-7-2.17

PAVEMENT CALCULATIONS

STATION FROM	STATION TO	LENGTH	SIDE	202	204	204	204	252	254	302	302	302	304	304	304	407	407	442	442	442	442	442	443	609	609
				PAVEMENT REMOVED	CADD AREA	WIDTH	SUBGRADE COMPACTION (AREA / 9)	FULL DEPTH PAVEMENT SAWING	PAVEMENT PLANING, ASPHALT CONCRETE	CADD AREA	WIDTH	6.5" ASPHALT CONCRETE BASE, PG64-22, (449) (AREA X (6.5"/12) / 27)	CADD AREA	WIDTH	6" AGGREGATE BASE (AREA X (6"/12) / 27)	TACK COAT (AREA /9 X 0.055) x 2	TACK COAT (AREA /9 X 0.085) + (AREA /9 X 0.055)	CADD AREA	WIDTH	1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447) (AREA X (1.5"/12) / 27)	2.25" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446) (AREA X (2.25"/12) / 27)	ANTI-SEGREGATION EQUIPMENT (SURFACE + INTERMEDIATE COURSE)	1.5" STONE MATRIX ASPHALT CONCRETE, 12.5 MM, PG 76-22M, (446) (AREA X (1.5"/12) / 27)	CURB, TYPE 6	CONCRETE MEDIAN
				SY	SF	FT	SY	FT	SY	SF	FT	CY	SF	FT	CY	GAL	GAL	SF	FT	CY	CY	CY	CY	FT	SY
RAMP C																									
116+33.24	119+11.99	278.75	LT/RT	816.60				171.23																	
116+33.24	117+82.65	149.41	LT/RT		4095.45		455.05			3918.58		78.61	4006.96		74.20	47.28		3868.13		17.91	26.86	44.77		203.84	33.57
117+82.65	122+72.02	489.37	LT/RT			28.00	1522.48				25.67	251.99		26.83	243.17	149.53			25.00	56.64	84.96	141.60			
122+72.02	123+68.17	96.15	LT/RT		2843.96		316.00			2614.91		52.46	2729.43	0.00	50.55	31.16		2549.46		11.80	17.70	29.51			
RAMP D																									
115+27.92	120+82.54	554.62	LT/RT	1276.70				89.69																	
115+19.00	115+72.76	53.76	LT/RT		3266.42		362.94			3066.92		61.53	3167.23		58.65	36.78		3009.12		13.93	20.90	34.83			
115+72.76	120+20.45	447.69	LT/RT			28.00	1392.81				25.67	230.52		26.83	222.46	136.79			25.00	51.82	77.72	129.54			
120+20.45	120+82.54	62.09	LT/RT		2531.32		281.26			2458.70		49.33	2494.99		46.20	29.78		2436.95		11.28	16.92	28.21			
RAMP I																									
373+63.81	376+08.86	245.05	LT/RT		6993.75		777.08			6418.24		128.76	6705.98		124.18	76.44		6253.80			43.43	72.38	28.95		
380+00.46	380+77.59	77.13	LT/RT		4554.94		506.10			4259.89		85.46	4407.89		81.63	51.03		4174.90			28.99	48.32	19.33		
RAMP J																									
387+09.53	390+76.46	366.93	LT/RT			28.00	1141.56				25.67	188.94		26.83	182.33	112.12			25.00		63.70	106.17	42.47		
390+76.46	394+35.41	358.95	LT/RT		12244.09		1360.45			11766.78		236.06	12005.74		222.33	136.89		11200.33			77.78	129.63	51.85		
RAMP K																									
384+99.44	389+80.00	480.56	LT/RT		18652.36		2072.48			17984.14		360.79	18318.05		339.22	214.44		17544.93		81.23	126.03	207.26			8.15
389+80.00	389+93.76	13.76	LT/RT		400.56		44.51			378.41		7.59	389.42		7.21	4.37		357.39		1.65	2.59	4.24			
389+93.76	397+53.79	760.03	LT/RT			28.00	2364.54				25.67	391.35		26.83	377.67	232.23			25.00	87.97	131.95	219.92			
RAMP L																									
379+89.28	381+06.41	117.13	LT/RT		5025.23		558.36			4699.37		94.28	4862.50		90.05	56.30		4605.98		21.32	31.99	53.31			
381+06.41	389+83.47	877.06	LT			28.00	2728.63				25.67	451.61		26.83	435.82	267.99			25.00	101.51	152.27	253.78			
S.R. 243																									
13+17.39	14+06.72	89.33	LT/RT			59.00	585.61				56.67	101.55		57.83	95.67	61.14			56.00	23.16	34.74	57.90			
14+06.72	16+00.75	194.03	LT/RT		10115.02		1123.89			9817.72		196.96	9966.39		184.56	118.96		9732.75		45.06	67.59	112.65			
16+00.75	18+24.00	223.25	LT/RT			47.00	1165.86				44.67	200.05		45.83	189.49	120.06			44.00	45.48	68.22	113.69			
18+24.00	21+54.00	330.00	LT/RT		8248.87		916.54			7478.36		150.03	7863.61		145.62	88.71		7258.21		33.60	50.40	84.01			
15+28.23	21+54.00	625.77	LT/RT	1229.53																					
19+05.00	21+54.00	249.00	LT/RT					518.87	479.65								67.15	4316.89		19.99	29.98	49.96			
S.R. 775																									
45+30.85	45+42.93	12.08	LT/RT						64.72								9.06	582.45		2.70	4.04	6.74			
45+42.93	56+32.79	1089.86	LT/RT	8556.94				75.96																	
45+42.93	55+33.61	990.68	LT/RT		65261.86		7251.32			63356.21		1271.04	64309.45		1190.92	767.68		62810.04		290.79	436.18	726.97			
58+53.22	64+73.78	620.56	LT/RT		40153.34		4461.48			39054.20		783.49	39603.77		733.40	473.49		38740.16		179.35	269.03	448.38			
60+59.87	70+75.00	1015.13	LT/RT	2715.25				26.80																	
64+73.78	66+95.47	221.69	LT/RT			59.00	1453.30				56.67	252.02		57.83	237.43	151.73			56.00	57.48	86.21	143.69			
66+95.47	70+75.00	379.53	LT/RT		15953.23		1772.58			15066.01		302.25	15509.62		287.22	181.04		14812.33		68.58	102.86	171.44			
TOTALS				14595.02			34614.84	882.55	544.37			5926.68			5619.99	3545.93	76.21			1223.23	2053.05	3418.89	142.60	203.84	41.72
TOTALS CARRIED TO GENERAL SUMMARY				14596			34615	883	545			5927			5620	3623				1224	2054	3419	143	204	42

NOTE: CADD AREA DENOTES COMPUTER GENERATED AREA.

CALCULATED SLP
CHECKED ALB

LAW-7-2.17

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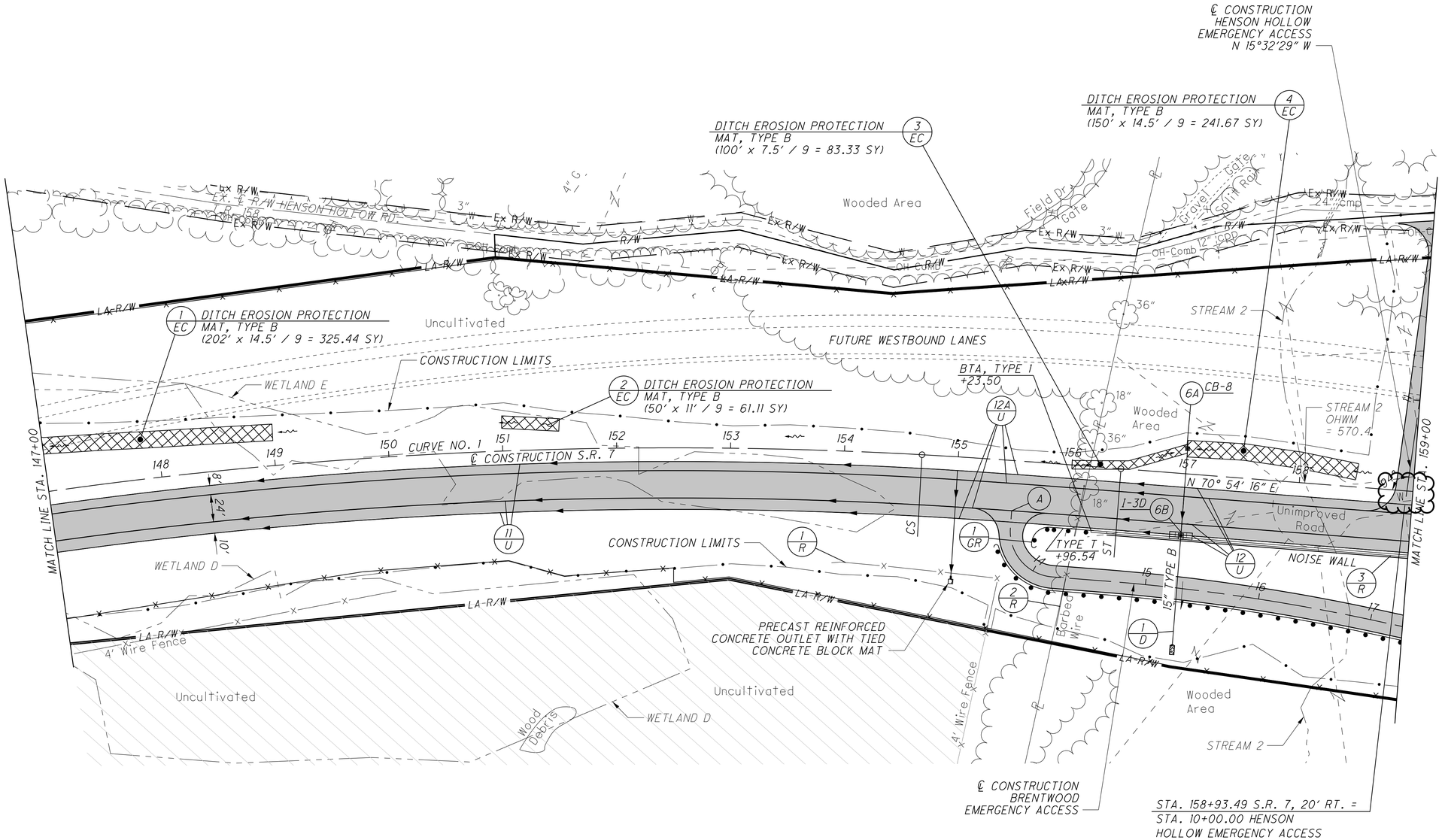


CURVE DATA
S.R. 7
CURVE NO. 1

P.I. STA. 138+60.99	θs = 1° 16' 21"
Δ = 53° 33' 53" (RT)	Ls = 175.00'
Dc = 1° 27' 15"	Ts = 2,076.38'
R = 3,940.00'	LT = 116.67'
T = 1,880.13'	ST = 58.34'
L = 3,508.44'	e_{max} = 4.00%
E = 425.60'	CS STA. 154+68.05
TS STA. 117+84.61	ST STA. 156+43.05
SC STA. 119+59.61	

NOTES:

THE UTILITY COMPANY AQUA OHIO (AND FORMERLY HECLA WATER ASSN) DENY OWNERSHIP AND DO NOT HAVE INSTALLATION RECORDS OF THE 8" WATERLINE SHOWN FROM STA 158+90, 9' RT TO STA 165+16, 31' RT. THEREFORE, THE EXISTENCE OF THE WATERLINE IN THIS AREA IS UNCONFIRMED. IF THIS WATERLINE IS DISCOVERED, CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

- DO NOT DISTURB
- PROPOSED PAVEMENT
- (1/GR) - INCLUDES 25' OF 15' RADIUS SHOP CURVED GUARDRAIL
- (A) - STA. 155+50.00, 44' RT., S.R. 7 = STA. 13+40.00 BRENTWOOD EMERGENCY ACCESS

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 102
FOR STORM SEWER PROFILE, SEE SHEET 187
FOR BRENTWOOD EMERGENCY ACCESS, SEE SHEET 465
FOR INTERSECTION DETAILS, SEE SHEETS 623
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR NOISE WALL, SEE SHEETS 679-705
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-773A
FOR FENCE TABLES, SEE SHEETS 1039-1041

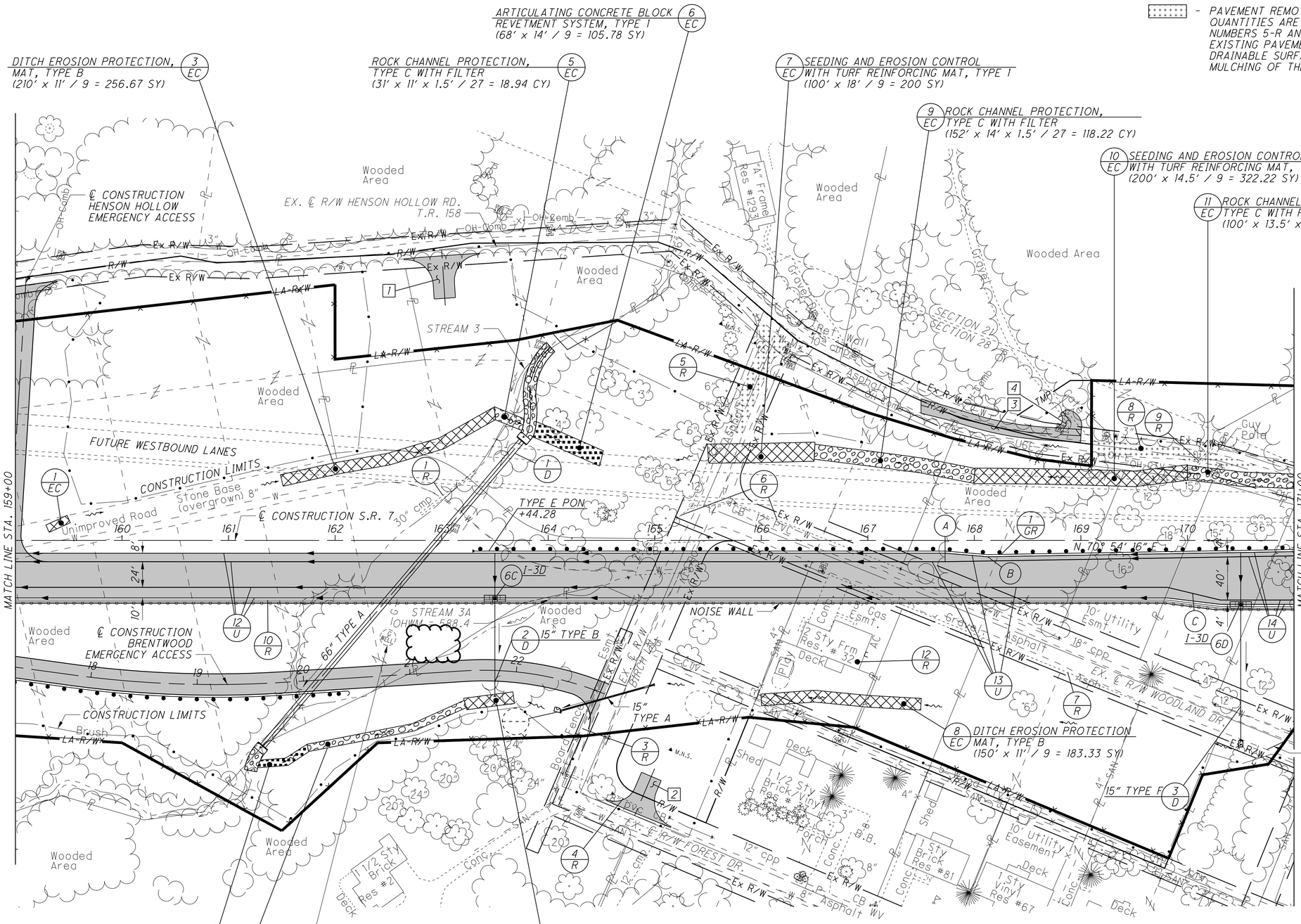
HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN
STA. 147+00 TO STA. 159+00

LAW-7-2.17

101
1247


ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (68' x 14' / 9 = 105.78 SY) 6 EC
DITCH EROSION PROTECTION, MAT, TYPE B (210' x 11' / 9 = 256.67 SY) 3 EC
ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (31' x 11' x 1.5' / 27 = 18.94 CY) 5 EC
7 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (100' x 18' / 9 = 200 SY)
9 EC ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (152' x 14' x 1.5' / 27 = 118.22 CY)
10 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2 (200' x 14.5' / 9 = 322.22 SY)
11 EC ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (100' x 13.5' x 1.5' / 27 = 75 CY)
- PAVEMENT REMOVED QUANTITIES ARE INCLUDED IN REFERENCE NUMBERS 5-R AND 8-R FOR THE REMOVAL OF EXISTING PAVEMENT, REGRADING TO ENSURE A DRAINABLE SURFACE AND SEEDING AND MULCHING OF THE AREA SHOWN.
℄ CONSTRUCTION HENSON HOLLOW EMERGENCY ACCESS
EX. ℄ R/W HENSON HOLLOW RD. T.R. 158
Wooded Area
STREAM 3
FUTURE WESTBOUND LANES
CONSTRUCTION LIMITS
Stone Base (overgrown) 8"
Unimproved Road
℄ CONSTRUCTION S.R. 7
TYPE E PON +44.28
MATCH LINE STA. 159+00
MATCH LINE STA. 171+00
℄ CONSTRUCTION BRENTWOOD EMERGENCY ACCESS
CONSTRUCTION LIMITS
Brush
STREAM 3A (OHWM = 588.4)
66" TYPE A
15" TYPE B
15" TYPE A
NOISE WALL
FOREST DR.
WOODLAND DR.
SAWCUT
ACTIVE NATURAL GAS WELL #1. API # 34087601320000
ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (50' x 7' / 9 = 38.89 SY) 2 EC
ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (200' x 7' x 1.5' / 27 = 77.78 CY) 4 EC
12 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (50' x 11' / 9 = 61.11 SY)
8 EC DITCH EROSION PROTECTION MAT, TYPE B (150' x 11' / 9 = 183.33 SY)
1 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (20' x 7.5' / 9 = 16.67 SY)
A - STA. 167+72.52 BEGIN PAVEMENT TAPER, 20' RT. BEGIN SHOULDER TAPER, 12' RT.
B - STA. 168+12.52 END SHOULDER TAPER, 15.33' RT.
C - STA. 169+80.98 BEGIN PAVEMENT TAPER, 44' RT. BEGIN SHOULDER TAPER, 54' RT.
STA. 170+30.98 END PAVEMENT TAPER, 56' RT. END SHOULDER TAPER, 60' RT.
NOTES:
THE UTILITY COMPANY AQUA OHIO (AND FORMERLY HECLA WATER ASSN) DENY OWNERSHIP AND DO NOT HAVE INSTALLATION RECORDS OF THE 8" WATERLINE SHOWN FROM STA 158+90, 9' RT TO STA 165+16, 31' RT. THEREFORE, THE EXISTENCE OF THE WATERLINE IN THIS AREA IS UNCONFIRMED. IF THIS WATERLINE IS DISCOVERED, CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- PROPOSED PAVEMENT
FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 104
FOR BRENTWOOD EMERGENCY ACCESS, SEE SHEET 465
FOR INTERSECTION DETAILS, SEE SHEETS 623
FOR DRIVE DETAILS, SEE SHEETS 630-638
FOR STORM SEWER PROFILE, SEE SHEET 197
FOR CULVERT DETAILS, SEE SHEETS 652-655
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR NOISE WALL, SEE SHEETS 679-705
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-773A
FOR FENCE TABLES, SEE SHEETS 1039-1041
HORIZONTAL SCALE IN FEET
0 25 50 100
CALCULATED SLP
CHECKED ALB
PLAN - S.R. 7
STA. 159+00 TO STA. 171+00
LAW-7-2.17
103
1247
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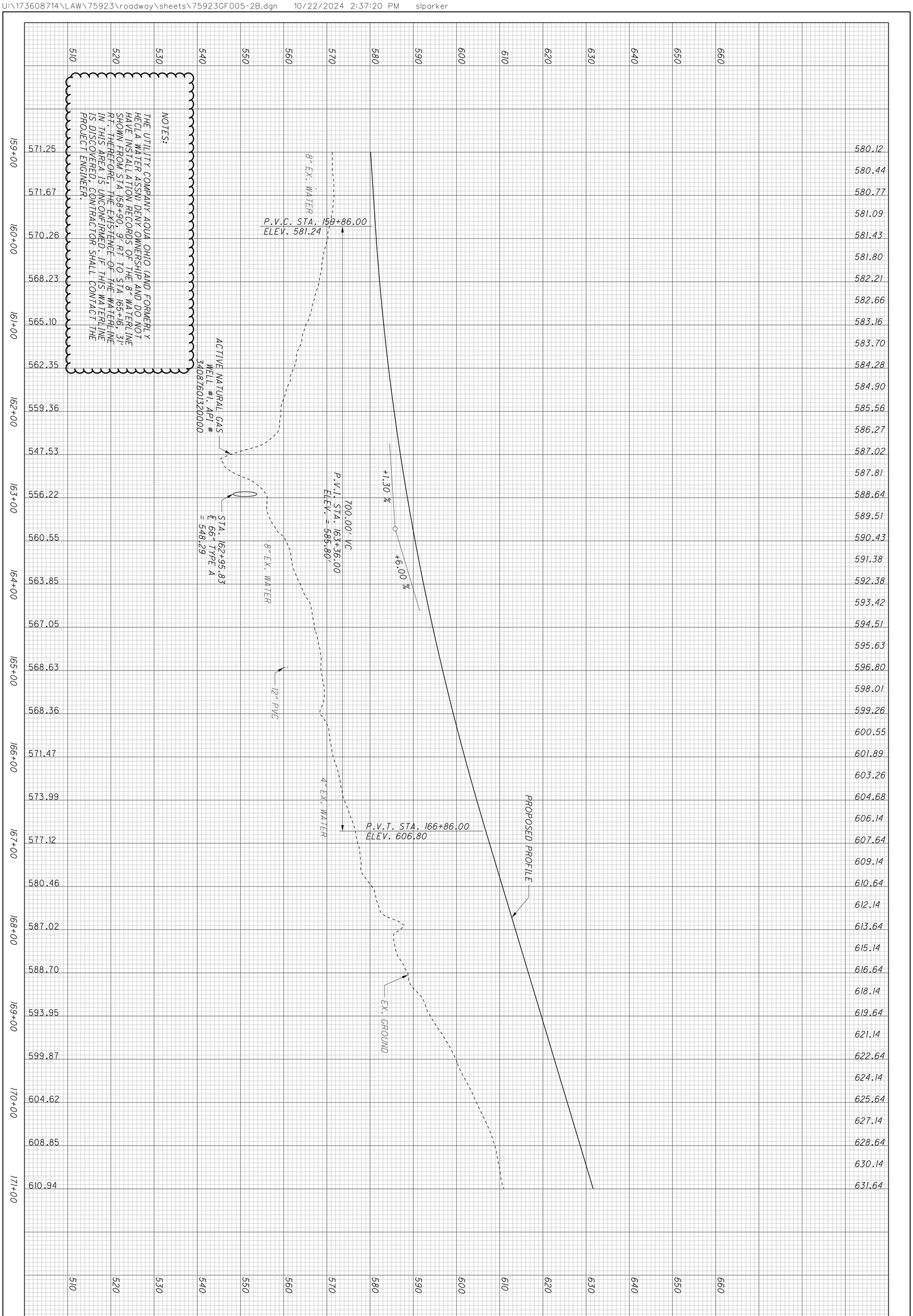

104
1247

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PROFILE - S.R. 7
STA. 159+00 TO STA. 171+00

CALCULATED SLP
CHECKED ALB

RO-## - POTENTIAL NON-TRADITIONAL HIBERNACULA

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (150' x 12.5' x 1.5' / 27 = 104.17 CY) — 1 EC

DITCH EROSION PROTECTION (VBF) (800' x 14.5' / 9 = 1288.89 SY) — 3 EC

PC STA. 309+49.89 S.R. 7, 20' RT.
BEGIN LANE TRANSITION

2 EC DITCH EROSION PROTECTION MAT, TYPE B (100' x 14.5' / 9 = 161.11 SY)

CONSTRUCTION LIMITS

RO-05

SECTION 14
SECTION 23

℄ CONSTRUCTION S.R. 7
S 87° 09' 28" E

TYPE E PON
+08.14

TYPE E PON
+17.54

CB-8
15" TYPE C

STA. 314+65.11
TRANSITION NOSE

4 EC DITCH EROSION PROTECTION MAT, TYPE B (50' x 11' / 9 = 61.11 SY)

5 EC DITCH EROSION PROTECTION (VBF) (800' x 11' /9 = 977.78 SY)

PRECAST REINFORCED CONCRETE OUTLET

EX. ℄ R/W
GUYAN-MCKINLEY SCHOOL RD.
T.R. 164

OLD ℄ R/W
GUYAN-MCKINLEY SCHOOL RD.
T.R. 164

Wooded Area
WETLAND J
Field Dr.
Dirt & Gravel
Open Field
Brush
Old Orchard
Trrp. 6 Rail
Road "B"
Ex R/W
LA-R/W
MATCH LINE STA. 303+00
MATCH LINE STA. 315+00

CURVE DATA
S.R. 7 LANE TRANSITION
TRANSITION CURVE NO. 1
(FOR HORIZONTAL LAYOUT ONLY)

P.I. Sta. 311+12.46, S.R. 7, 20' RT.
Δ = 6° 29' 46" (LT)
Dc = 2° 00' 00"
R = 2,864.79'
T = 162.58'
L = 324.81'
E = 4.61'
e_{max} = NC
PC STA. = 309+49.89, S.R. 7, 20' RT.
PT STA. = 312+74.00, S.R. 7, 1.61' RT.

(A) - STA. 309+49.89
BEGIN SHOULDER TAPER, 12' RT.
STA. 309+99.71
END SHOULDER TAPER, 9.57' RT.

- PROPOSED PAVEMENT

(VBF) DENOTES LOCATION OF VEGETATED BIOFILTER.

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 132
FOR PAVEMENT DETAILS, SEE SHEET 610
FOR DRIVE DETAILS, SEE SHEETS 630-638A
FOR STORM SEWER PROFILE, SEE SHEET 644
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-773A
FOR FENCE TABLES, SEE SHEETS 1039-1041

HORIZONTAL SCALE IN FEET
0 25 50 100
CALCULATED SLP
CHECKED ALB

PLAN - S.R. 7
STA. 303+00 TO STA. 315+00

LAW-7-2.17

131
1247

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RO-## - POTENTIAL NON-TRADITIONAL HIBERNACULA

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (100' x 14.5' x 1.5' / 27 = 80.56 CY) — 7 EC

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (100' x 18' / 9 = 200 SY) — 6 EC

ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE 1 (119' x 13' / 9' = 171.89 SY) — 8 EC

SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (104' x 14.5' / 9 = 167.56 SY) — 10 EC

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (50' x 11' x 1.5' / 27 = 30.56 CY) — 5 EC

ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (172' x 12.5' x 1.5' / 27 = 119.44 CY) — 9 EC

Mowed
Brush
Ex R/W
Wooded Area
BK. ℄ R/W GUYAN-MCKINLEY SCHOOL RD. R. 164
13
LA-R/W
Wooded Area
Open Field
1 EC
2 EC
STREAM 13A3 OHWM = 576.56
STREAM 13A2 OHWM = 576.50
STREAM 13A3
STREAM 13A2
STREAM 13A
STREAM 13 OHWM = 579.49
STREAM 13A OHWM = 546.21
STREAM 13A1 OHWM = 561.20
STREAM 13
CONSTRUCTION LIMITS
TRANSITION CURVE NO. 2
2 GR
2 D
41 U
43 U
RO-07
RO-08
Wooded Area
Trail
CONSTRUCTION LIMITS
SECTION 14
SECTION 23
TYPE E PON +80.24
18"
24"
16
10
TYPE T +96.51
15" TYPE B
MATCH LINE STA. 315+00
S 87° 09' 28" E
316
317
318
319
320
321
322
323
324
325
326
CURVE NO. 2
CURVE NO. 1
℄ CONSTRUCTION S.R. 7
MATCH LINE STA. 327+00
SC
CS
ST
Field Dr.
Open Field
28B CB-8
1 GR
1 D
WETLAND K
15" TYPE B
15" TYPE C
Brush
WETLAND T
CONSTRUCTION LIMITS
Open Field
STREAM 13A
Field Dr.
60" TYPE A
42 U
TYPE T +50.24
RO-06
Wooded Area
Trail
28C CB-8
3 D
44 U
SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (850' x 7.5' / 9 = 708.33 SY) — 3 EC
2 R
Brush
WETLAND L
Field Dr.
LA-R/W
Open Field
CH
STREAM 13
WETLAND M
SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (250' x 7.5' / 9 = 208.33 SY) — 4 EC
ABANDONED NATURAL GAS WELL #4 API #3400760107000
- DO NOT DISTURB
- PROPOSED PAVEMENT
(VBF) DENOTES LOCATION OF VEGETATED BIOFILTER.

1 EC DITCH EROSION PROTECTION (VBF) (50' x 14.5' / 9 = 80.56 SY)

2 EC DITCH EROSION PROTECTION MAT, TYPE B. (130' x 7.5' / 9 = 108.33 SY)

CURVE DATA
S.R. 7
CURVE NO. 7

P.I. STA. 326+36.08
Δ = 31° 21' 41" (RT)
Dc = 2° 00' 00"
R = 2,864.79'
T = 670.91'
L = 1,318.07'
E = 77.51'
TS STA. 317+06.62
SC STA. 319+56.62
θs = 2° 30' 00"
Ls = 250.00'
Ts = 929.46'
LT = 166.68'
ST = 83.35'
e_{max} = 5.10%
CS STA. 332+74.69
ST STA. 335+24.69

CURVE DATA
S.R. 7 LANE TRANSITION
TRANSITION CURVE NO. 2
(FOR HORIZONTAL LAYOUT ONLY)

P.I. Sta. 323+90.75, S.R. 7, 188.18' LT.
Δ = 35° 21' 27" (RT)
Dc = 1° 58' 11"
R = 2,908.79'
T = 927.12'
L = 1,795.03'
E = 144.18'
e_{max} = 5.10%
PC STA. = 315+02.52, S.R. 7, 24.41' LT.
PT STA. = 332+74.69, S.R. 7, 44' LT.

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 134
FOR PAVEMENT DETAILS, SEE SHEET 610
FOR DRIVE DETAILS, SEE SHEETS 630-638A
FOR STORM SEWER PROFILES, SEE SHEETS 315, 641 & 644
FOR CULVERT DETAILS, SEE SHEETS 659-660
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-773A
FOR FENCE TABLES, SEE SHEETS 1039-1041

N

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN - S.R. 7
STA. 315+00 TO STA. 327+00

LAW-7-2.17

133
1247

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STA. 365+89.03
BEGIN PAVEMENT TAPER, 44' RT.
BEGIN SHOULDER TAPER, 54' RT.

(A) -

STA. 366+89.03
END PAVEMENT TAPER, 56' RT.
END SHOULDER TAPER, 64' RT.

(5 EC) SEEDING AND EROSION CONTROL
WITH TURF REINFORCING MAT, TYPE 3
(50' X 21.5' / 9 = 119.44 SY)

(6 EC) ARTICULATING CONCRETE BLOCK
REVETMENT SYSTEM, TYPE 1
(316' X 21.5' / 9 = 754.89 SY)

LA-R/W

CONSTRUCTION LIMITS

Wooded Area

ARTICULATING CONCRETE BLOCK (4 EC)
REVETMENT SYSTEM, TYPE 1
(459' x 12.5' / 9' = 637.5 SY)

DETENTION BASIN NO. 4

(2 EC) SEEDING AND EROSION CONTROL
WITH TURF REINFORCING MAT, TYPE 1
(525' x 7.5' / 9 = 437.5 SY)

SEEDING AND EROSION CONTROL (3 EC)
WITH TURF REINFORCING MAT, TYPE 1
(125' x 7.5' / 9 = 104.17 SY)

STREAM 16

DETENTION BASIN NO. 4 ACCESS DRIVE

(1 EC) SEEDING AND EROSION CONTROL
WITH TURF REINFORCING MAT, TYPE 1
(550' x 7.5' / 9 = 458.33 SY)

STA. 371+40.72
BEGIN PAVEMENT TAPER, 44' LT.
BEGIN SHOULDER TAPER, 54' LT.

STREAM 16
OHWM = 819.94

IMPACT ATTENUATOR, TYPE 1
+48.82

(2 D) (4 GR) BARRIER DESIGN

STA. 372+90.72
END SHOULDER TAPER, 54' LT.

℄ CONSTRUCTION S.R. 7

(1 GR) (54 U) 10'

LONG SPAN GUARDRAIL

Abandoned Well (Cap)

STREAM 16A
OHWM = 582.97

(55 U)

MATCH LINE STA. 363+00

MATCH LINE STA. 375+00

24'

4'

CB-8 (28H)

CB-8 (29) 15" TYPE C

364 365 366 367 368 369 370 371 372 373 374

S 65° 44' 01" E

4'

24'

10'

(A)

IMPACT ATTENUATOR TYPE 2 WITH
CONCRETE LEVELING PAD
+65.62

(58 U)

370 371 372 373 374 375

(53 U) STREAM 16A1

STREAM 16A
OHWM = 643.35

STREAM 16A
OHWM = 819.94

15" TYPE F (1 D)

PROP. LUMINAIRE, TYP.

℄ RAMP I

(56 U) (B) (57 U) (3 GR) (9 EC)

(2 GR)

PROP. PULL BOX

LA-R/W

CONSTRUCTION LIMITS

Wooded Area

ROCK CHANNEL PROTECTION, (7 EC)
TYPE C WITH FILTER
(110' X 12.5' X 1.5' / 27 = 76.39 CY)

STA. 369+51.65 S.R. 7, 56' RT. =
PC STA. 369+51.65 RAMP I
BEGIN RAMP

Stone Dr.

SEEDING AND EROSION CONTROL (8 EC)
WITH TURF REINFORCING MAT, TYPE 1
(553' X 18' / 9 = 1106 SY)

(9 EC) SEEDING AND EROSION CONTROL
WITH TURF REINFORCING MAT, TYPE 1
(100' X 7.5' / 9 = 83.33 SY)

- DO NOT DISTURB

- PROPOSED PAVEMENT

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 143
FOR STORM SEWER PROFILE, SEE SHEETS 368 & 643
FOR RAMP I PLAN AND PROFILE, SEE SHEET 431
FOR PAVEMENT DETAILS, SEE SHEET 611
FOR INTERCHANGE DETAILS, SEE SHEETS 619-621
FOR DETENTION BASIN DETAILS, SEE SHEETS 665-673
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-773A
FOR FENCE TABLES, SEE SHEETS 1039-1041

N

0 25 50 100
HORIZONTAL SCALE IN FEET

CALCULATED SLP
CHECKED ALB

PLAN - S.R. 7
STA. 363+00 TO STA. 375+00

LAW-7-2.17

142
1247

CURVE DATA
S.R. 7
CURVE NO. 9

P.I. STA. 387+47.15
Δ = 46° 04′ 34″ (LT)
Dc = 2° 29′ 28″
R = 2,300.00′
T = 805.51′
L = 1,549.62′
E = 136.98′
TS STA. 376+18.38
SC STA. 379+18.38

θs = 3° 44′ 12″
Ls = 300.00′
Ts = 1,128.77′
LT = 200.04′
ST = 100.04′
e_{max} = 6.20%
CS STA. 394+68.00
ST STA. 397+68.00

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN - S.R. 7
STA. 375+00 TO STA. 387+00

LAW-7-2.17

144
1247

(A) STA. 383+90.72 S.R. 7, 69′ LT.
END PAVEMENT TAPER =
ST STA. 383+90.72 RAMP J
BEGIN RAMP
RAMP NOSE

LITTLE PADDY CREEK
CONSTRUCTION LIMITS
Ex LA-R/W
WETLAND N
Wooded Area
LA-R/W
DETENTION BASIN #4
CB2-2B
15″ TYPE C
SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (123′ x 7.5′ / 9 = 102.5 SY)
1 EC
CB2-2B 15″ TYPE B 30
1 GR
BRIDGE NO. LAW-7-0713 L&R
PROP. LUMINAIRE, TYP.
55 U
PROP. PULL BOX
BTA, TYPE 1 +39.68
BTA, TYPE 1 +17.76
32 CB-8
STA. 381+38.36 S.R. 7 = STA. 56+77.91 S.R. 775
Brush
24″ TYPE A
Rock Channel
WATERLINE ABANDONED
℄ RAMP J
TYPE E PON +58.55
STREAM 17 OHWM = 568.3
59A U
2 R
61 U
5 EC
4 GR
59 U
A
℄ CONSTRUCTION S.R. 7
CURVE NO. 9
MATCH LINE STA. 375+00
MATCH LINE STA. 387+00
2 GR
S 65° 44′ 01″ E 376
BTA, TYPE 2 +57.19
6 GR
BTA, TYPE 1 +38.06
BTA, TYPE 1 +27.70
31 CB-5
BTA, TYPE 2 +08.36
15″ TYPE B
TYPE T +82.30
BTA, TYPE 2 +93.59
58 U
3 GR
57 U
3 EC
8 GR
7 GR
TYPE T +52.22
33 CB-5A
IMPACT ATTENUATOR, TYPE I +21.79
BARRIER DESIGN
CB-5A 34
5 GR
60 U
2 EC
6 EC
1 D
4 EC DITCH EROSION PROTECTION (VBF) (421′ x 11′ / 9 = 514.56 SY)
LITTLE PADDY CREEK OHWM = 542.2
BTA, TYPE 2 +04.40
STREAM 16
℄ RAMP I
S 52° 05′ 53″ E 319
BRIDGE NO. LAW-775-0105
1 R
EX. S.R. 7
Brush
WETLAND N
℄ RAMP I
Brush
℄ RAMP L
NOISE WALL
CONSTRUCTION LIMITS
LA-R/W
LITTLE PADDY CREEK
SIGNAL STRAIN POLE WITH LUMINAIRE (TYP.)
SIGNAL STRAIN POLE (TYP.)
℄ CONSTRUCTION S.R. 775
Asphalt
EX. S.R. 775
Gravel
Concrete
Pool
1Sty Brick Res. #6
Shed
Pr. Comb
WALNUT ST.
Ex LA-R/W

2 EC DITCH EROSION PROTECTION MAT, TYPE B (681′x 7.5′ / 9 = 567.5 SY)

3 EC SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1 (101′ x 7.5′ / 9 = 84.17 SY)

5 EC ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (107′ x 7.5′ x 1.5′ / 27 = 44.58 CY)

6 EC DITCH EROSION PROTECTION (VBF) (300′ x 11′ / 9 = 366.67 SY)

- DO NOT DISTURB
- PROPOSED PAVEMENT

(VBF) DENOTES LOCATION OF VEGETATED BIOFILTER

FOR QUANTITIES, SEE SHEETS 71-81
FOR PROFILE, SEE SHEET 145
FOR RAMP I PLAN AND PROFILE, SEE SHEET 431
FOR RAMP J PLAN AND PROFILE, SEE SHEET 437
FOR RAMP L PLAN AND PROFILE, SEE SHEET 457
FOR S.R. 775 PLAN AND PROFILE, SEE SHEETS 559-560
FOR INTERCHANGE DETAILS, SEE SHEETS 619-621
FOR INTERSECTION DETAILS, SEE SHEETS 627-628

FOR STORM SEWER PROFILES, SEE SHEETS 643 & 645
FOR CULVERT DETAILS, SEE SHEET 664
FOR DETENTION BASIN DETAILS, SEE SHEETS 665-673
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR NOISE WALL, SEE SHEETS 679-705
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-773A
FOR STRUCTURE DETAILS, SEE SHEETS 931-1038
FOR FENCE TABLES, SEE SHEETS 1039-1041

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SEEDING END WIDTH	SEEDING SQ. YDS.
120	
58	
	188
54	
	232
50	
83	
	91
	511

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	1699		
0	1358		
		0	1462
0	1263		
		0	1707
0	1038		
0	1242		
		0	444
		0	3613

EX R/W
R/W
EX R/W
LA-R/W
3" EX. WATER
8" EX. WATER
NOISE WALL
AHEAD BACK
10:1
4:1
4:1
3:1
575.61
580.51
159+30.11
568.12
MATCH LINE ACCESS DRIVE
MATCH LINE HENSON HOLLOW EMERGENCY ACCESS
580.12
159+00.00
569.63
DRAINAGE LAYER (TYP.)
BACK AHEAD
5'
4:1
574.21
579.59
158+59.97
570.40

NOTES:

THE UTILITY COMPANY AQUA OHIO (AND FORMERLY HECLA WATER ASSN) DENY OWNERSHIP AND DO NOT HAVE INSTALLATION RECORDS OF THE 8" WATERLINE SHOWN FROM STA 158+90, 9' RT TO STA 165+16, 31' RT. THEREFORE, THE EXISTENCE OF THE WATERLINE IN THIS AREA IS UNCONFIRMED. IF THIS WATERLINE IS DISCOVERED, CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

ITEM 203 - EMBANKMENT, AS PER PLAN, TYPE C ..... 250 CY

640 620 600 580 560 540

260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240

CALCULATED SLP
CHECKED ALB

CROSS SECTIONS S.R. 7
STA. 158+59.97 TO STA. 159+30.11

LAW-7-2.17

189
1247

SEEDING END WIDTH	SEEDING SQ. YDS.
129	673
113	617
109	253
	1543

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
12	2014	11	3551
1	1820	1	3249
0	1688	0	1248
		12	8048

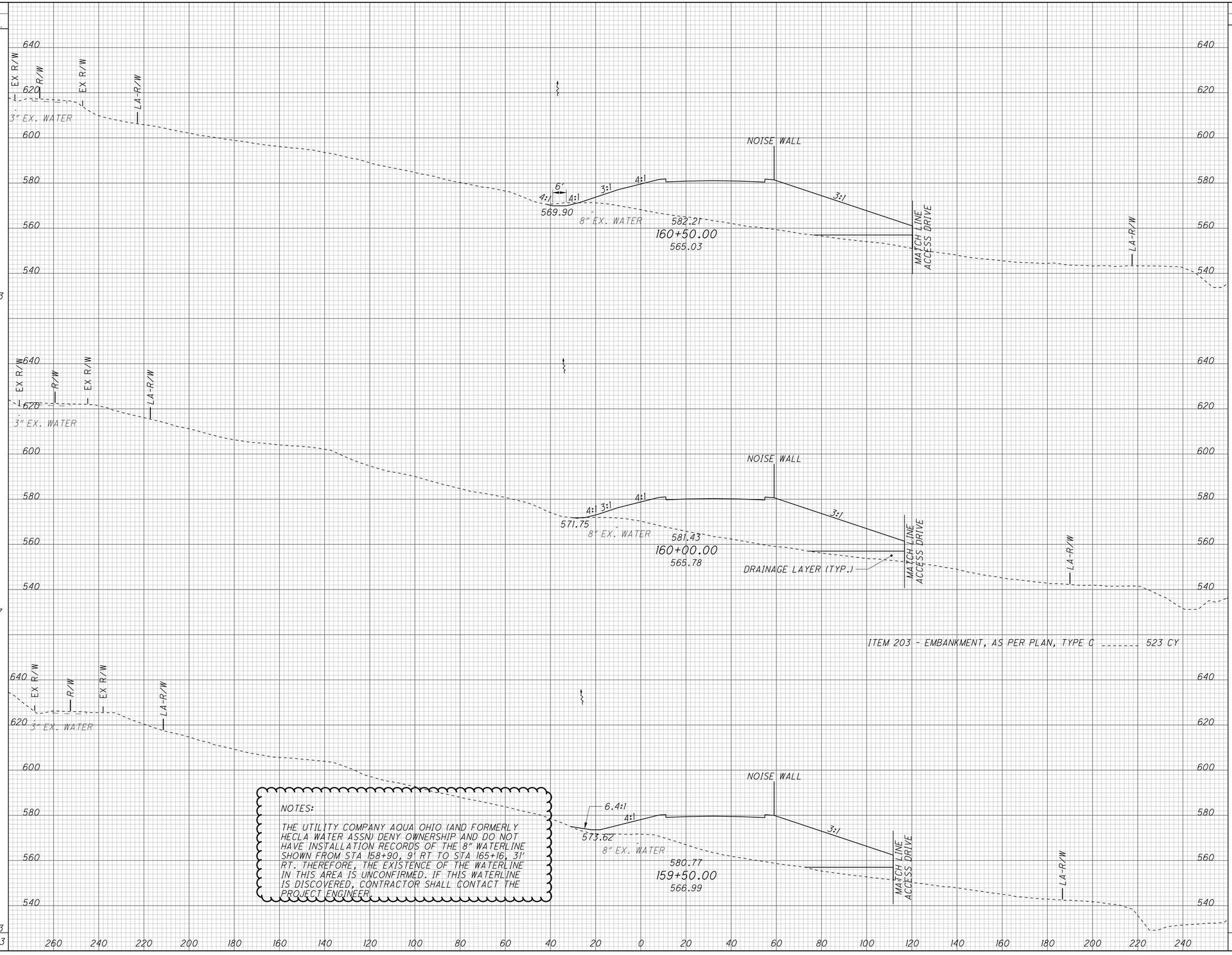
CALCULATED SLP

CHECKED ALB

CROSS SECTIONS S.R. 7
STA. 159+50.00 TO STA. 160+50.00

LAW-7-2.17

190
1247



ITEM 203 - EMBANKMENT, AS PER PLAN, TYPE C ..... 523 CY

NOTES:

THE UTILITY COMPANY AQUA OHIO (AND FORMERLY HECLA WATER ASSN) DENY OWNERSHIP AND DO NOT HAVE INSTALLATION RECORDS OF THE 8" WATERLINE SHOWN FROM STA 158+90, 9' RT TO STA 165+16, 31' RT. THEREFORE, THE EXISTENCE OF THE WATERLINE IN THIS AREA IS UNCONFIRMED. IF THIS WATERLINE IS DISCOVERED, CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

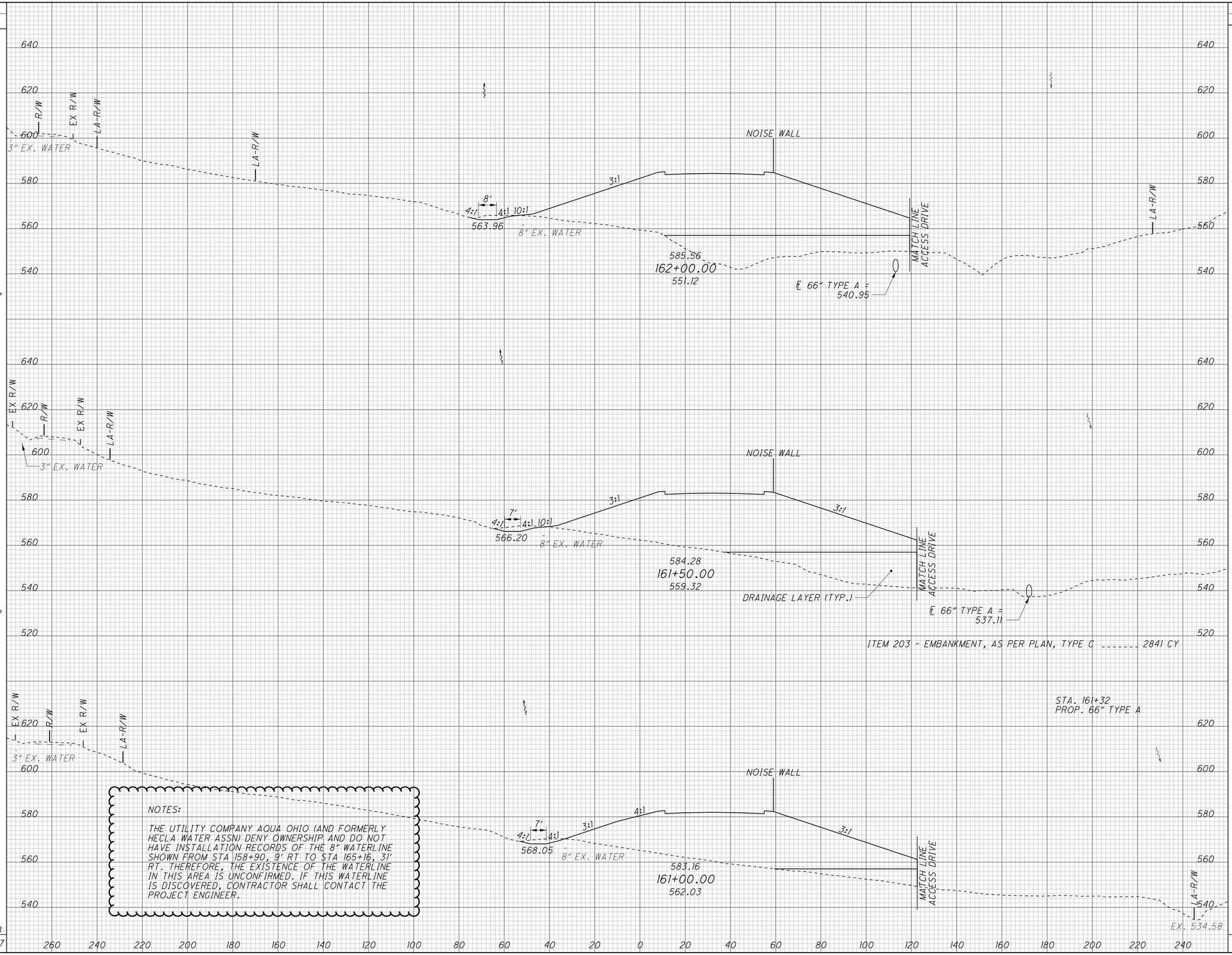
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
163	887	22	3217	50	5575
156	832	31	2803	54	4853
144	758	27	2438	36	4123
	2477			140	14551

CALCULATED SLP
CHECKED ALB

CROSS SECTIONS S.R. 7
STA. 161+00.00 TO STA. 162+00.00

LAW-7-2.17

191
1247



NOTES:

THE UTILITY COMPANY AQUA OHIO (AND FORMERLY HECLA WATER ASSN) DENY OWNERSHIP AND DO NOT HAVE INSTALLATION RECORDS OF THE 8" WATERLINE SHOWN FROM STA 158+90, 9' RT TO STA 165+16, 31' RT. THEREFORE, THE EXISTENCE OF THE WATERLINE IN THIS AREA IS UNCONFIRMED. IF THIS WATERLINE IS DISCOVERED, CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

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SEEDING	
END WIDTH	SQ. YDS.
	212
	1100
	184
	971
	165
	913
	2984

END AREA		VOLUME	
CUT	FILL	CUT	FILL
8	4294		
		17	7734
10	4058		
		10	7172
0	3687		
		21	6393
		48	21299

CALCULATED SLP
CHECKED ALB

STA. 163+75.36
PROP. 66" TYPE A

BRENTWOOD EMERGENCY ACCESS GRADING. FOR SECTIONS SEE SHEETS 466-472

* MASONARY COLLARS AS PER SCD DM-1.1 (INCLUDE WITH COST OF CONDUIT)

(60) INLET NO. 3D
STA. 163+50.00, 55.67' RT., S.R. 7
T/C = 589.79
℄ = 584.00
℄ 6" (NW) = 585.00

NOISE WALL

12' - 15" CONDUIT, TYPE F @ 0.83%
℄ = 583.90
47' - 15" CONDUIT, TYPE F, 707.21 @ 31.62%
℄ = 569.04

HW-2.1 OR 2.2
STA. 163+50.00, 146.54' RT., S.R. 7
℄ = 568.89

20' - 15" CONDUIT, TYPE B @ 0.43%

15' - 15" CONDUIT, TYPE F @ 0.43%

MATCH LINE ACCESS DRIVE

EX. GAS

8" EX. WATER

590.43
163+50.00
558.98

℄ 66" TYPE A = 552.45

558.61

9' 4:1 4:1 10:1 3:1 3:1

R/W EX R/W LA-R/W LA-R/W

NOISE WALL

559.31

8" EX. WATER

EX. 30" CMP (TO BE REMOVED)

EX. GAS

588.64
163+00.00
555.40

℄ 66" TYPE A = 548.62

ITEM 203 - EMBANKMENT, AS PER PLAN, TYPE C ..... 3354 CY

NOTES:

THE UTILITY COMPANY AQUA OHIO (AND FORMERLY HECLA WATER ASSN) DENY OWNERSHIP AND DO NOT HAVE INSTALLATION RECORDS OF THE 8" WATERLINE SHOWN FROM STA 158+90, 9' RT TO STA 165+16, 31' RT. THEREFORE, THE EXISTENCE OF THE WATERLINE IN THIS AREA IS UNCONFIRMED. IF THIS WATERLINE IS DISCOVERED, CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

NOISE WALL

562.47

8" EX. WATER

DRAINAGE LAYER (TYP.)

EX. GAS

ACTIVE NATURAL GAS WELL #1. API # 34087601320000

587.02
162+50.00
547.65

℄ 66" TYPE A = 544.78

8' 4:1 10:1 3:1 3:1

R/W EX R/W LA-R/W LA-R/W

260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240

CROSS SECTIONS S.R. 7
STA. 162+50.00 TO STA. 163+50.00

LAW-7-2.17

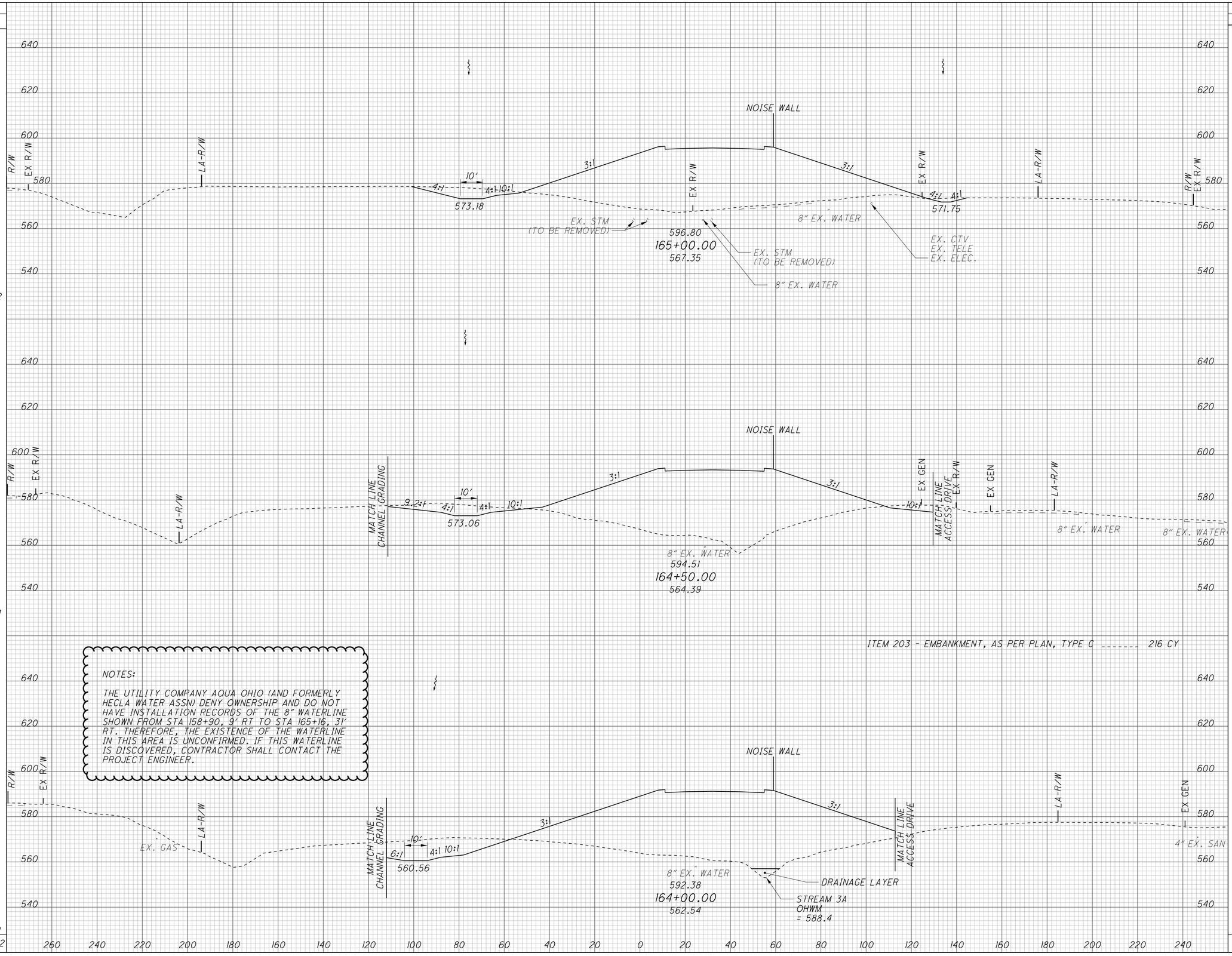
192
1247

SEEDING	
END WIDTH	SQ. YDS.
220	1182
205	1101
191	1119
	3402

END AREA		VOLUME	
CUT	FILL	CUT	FILL
154	3003		
		333	5530
205	2969		
		529	5911
367	3415		
		347	7138
		1209	18579

CALCULATED SLP

CHECKED ALB



NOTES:

THE UTILITY COMPANY AQUA OHIO (AND FORMERLY HECLA WATER ASSN) DENY OWNERSHIP AND DO NOT HAVE INSTALLATION RECORDS OF THE 8" WATERLINE SHOWN FROM STA 158+90, 9' RT TO STA 165+16, 31' RT. THEREFORE, THE EXISTENCE OF THE WATERLINE IN THIS AREA IS UNCONFIRMED. IF THIS WATERLINE IS DISCOVERED, CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

ITEM 203 - EMBANKMENT, AS PER PLAN, TYPE C ..... 216 CY

CROSS SECTIONS S.R. 7
STA. 164+00.00 TO STA. 165+00.00

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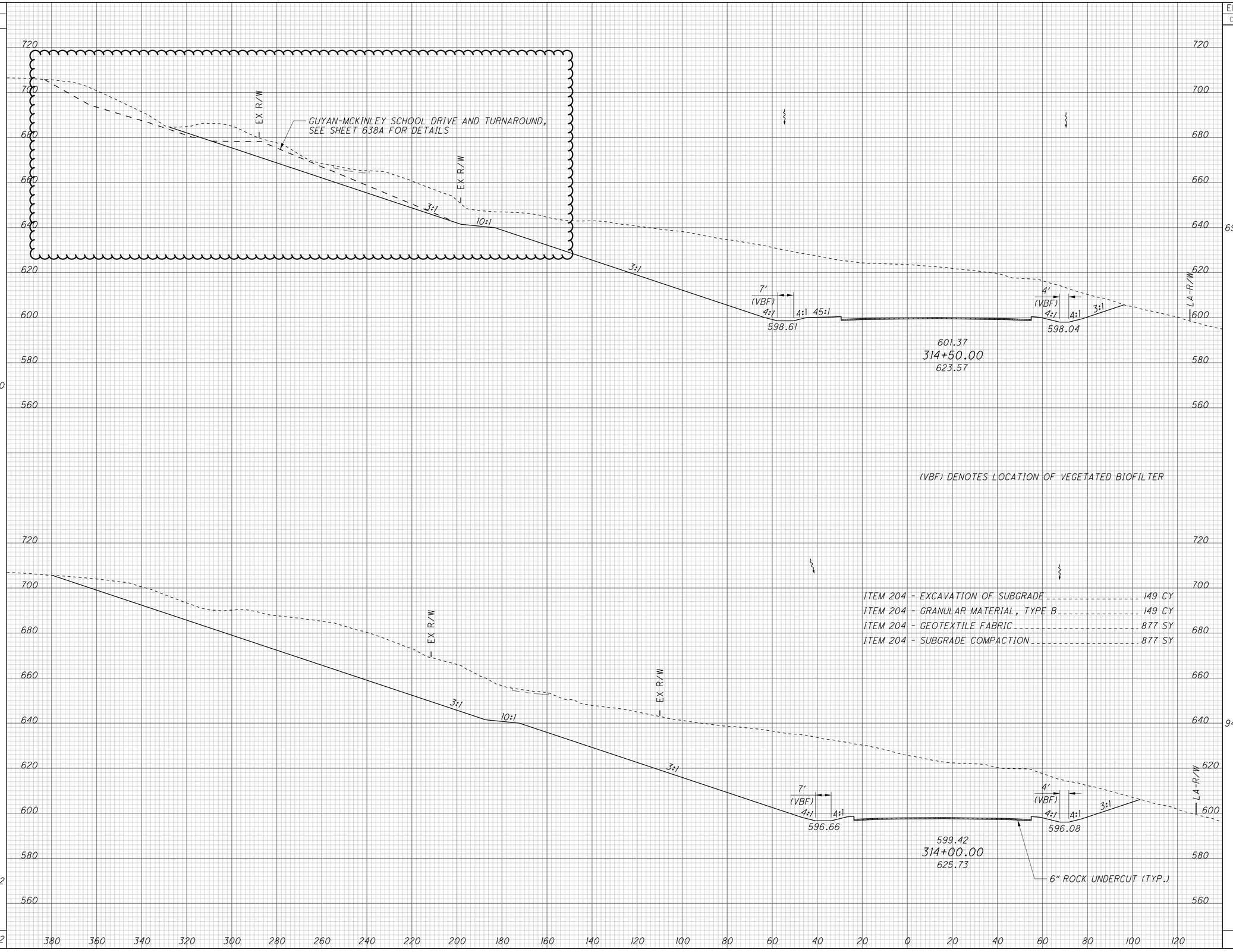
SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL	SLP	ALB
365	2220	6976	0	15202	0		
434	2442	9442	0	21458	0		
	4662			36660	0		



CROSS SECTIONS S.R. 7
STA. 314+00.00 TO STA. 314+50.00

LAW-7-2.17

305
1247

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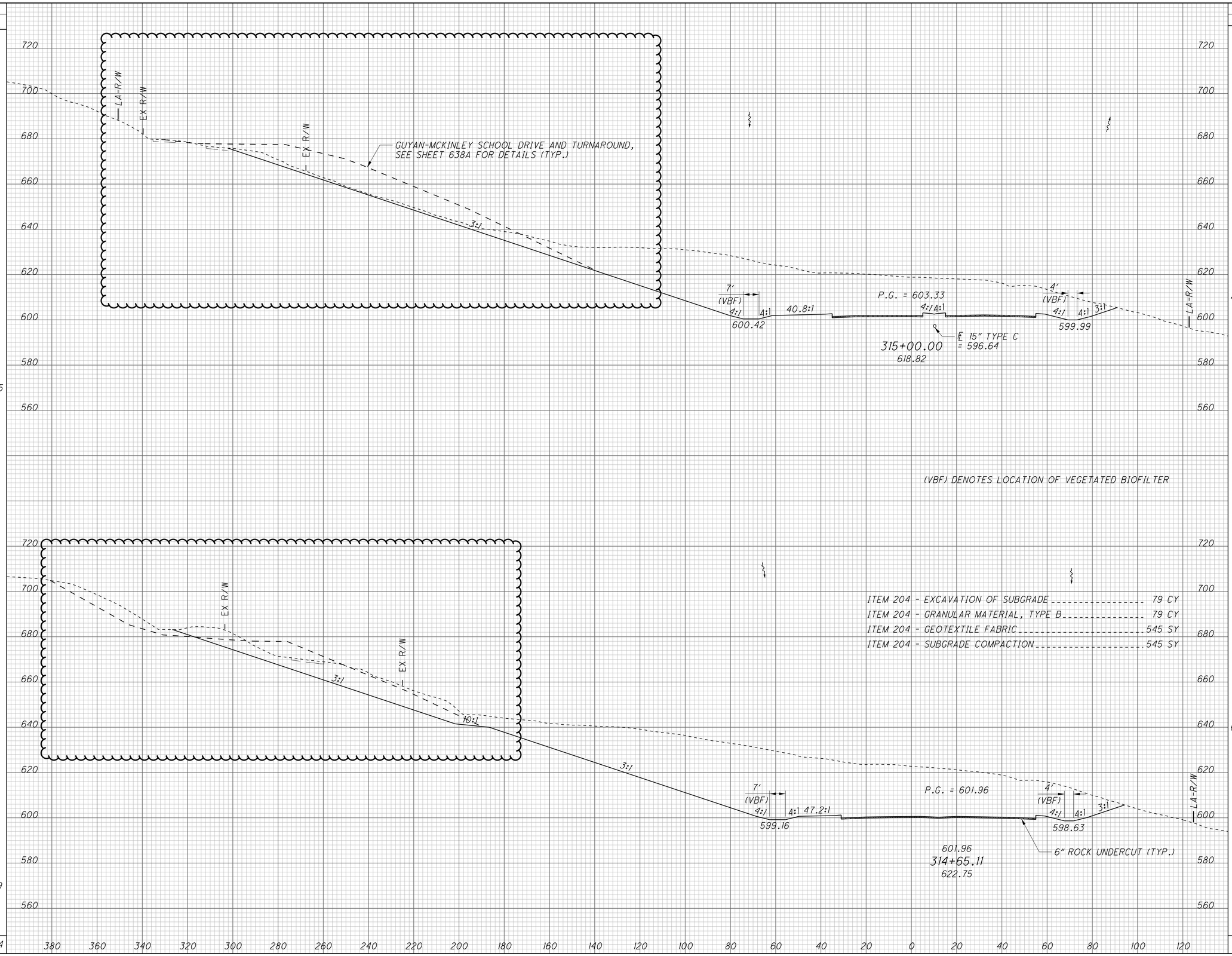
SEEDING	
END WIDTH	SQ. YDS.
339	1355
360	609
	1964



END AREA		VOLUME	
CUT	FILL	CUT	FILL
4337	0	6923	0
6376	0	3737	0
		10660	0

CALCULATED SLP
CHECKED ALB

CROSS SECTIONS S.R. 7
STA. 314+65.11 TO STA. 315+00.00

LAW-7-2.17

306
1247

STREAM 16A

STREAM 16

PROP. LUMINAIRE, TYP.

PRECAST REINFORCED CONCRETE OUTLET WITH TIED CONCRETE BLOCK MAT

℄ CONSTRUCTION S.R. 7

CB-8 15" TYPE C 29

CB2-2B 15" TYPE B 30

CB-5 15" TYPE B 31

℄ CONSTRUCTION S.R. 775

SIGNAL STRAIN POLE WITH LUMINAIRE (TYP.)

S 65° 44' 01" E

CURVE NO. 1

℄ RAMP I

℄ RAMP L

SIGNAL STRAIN POLE (TYP.)

BTA, TYPE 1 +38.42

BTA, TYPE 1 +37.71

BTA, TYPE 2 +71.95

42" TYPE C

6' W

Rock Channel

LOT 2

LOT 3

LOT 4

CREEK

PT

Ex. Fence

PADDY

WETLAND N

Brush

Wooded Area

N 33° 21' 37" E

S 52° 05' 53" E

EX. S.R. 7

PC

BRIDGE NO. LAW-7-0711

STA. 373+61.70 BEGIN SHOULDER TAPER, 8' RT. RAMP NOSE

STA. 374+11.70 END SHOULDER TAPER, 6' RT.

PROP. LIGHTING PULL BOX, TYP.

STA. 375+85.82 BEGIN PAVEMENT TAPER, 16' LT.

15" TYPE F

STA. 376+35.82 END PAVEMENT TAPER, 24' LT.

LA-R/W

STA. 369+51.65 BEGIN RAMP = STA. 369+51.65, 56' RT., S.R. 7

CONSTRUCTION LIMITS

CURVE DATA
RAMP I
CURVE NO. 1

P.I. Sta. 373+25.29
Δ = 13° 38' 08" (RT)
Dc = 1° 50' 00"
R = 3,125.22'
T = 373.64'
L = 743.76'
E = 22.26'
e_{max} = 3.53%
PC Sta. 369+51.65
PT Sta. 376+95.41

- DO NOT DISTURB

- PROPOSED PAVEMENT

2/GR - INCLUDES 50' OF 38' RADIUS SHOP CURVED GUARDRAIL

3/GR - INCLUDES 62.5' OF 39' RADIUS SHOP CURVED GUARDRAIL

3/EC ROCK CHANNEL PROTECTION TYPE B WITH FILTER (426' X 2.5' X 15' / 27 = 710 CY)

2/EC ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, TYPE I (61' x 16' / 9' = 108.44 SY)

1/EC ROCK CHANNEL PROTECTION, TYPE B WITH FILTER (407' X 14' X 2.5' / 27 = 527.59 CY)

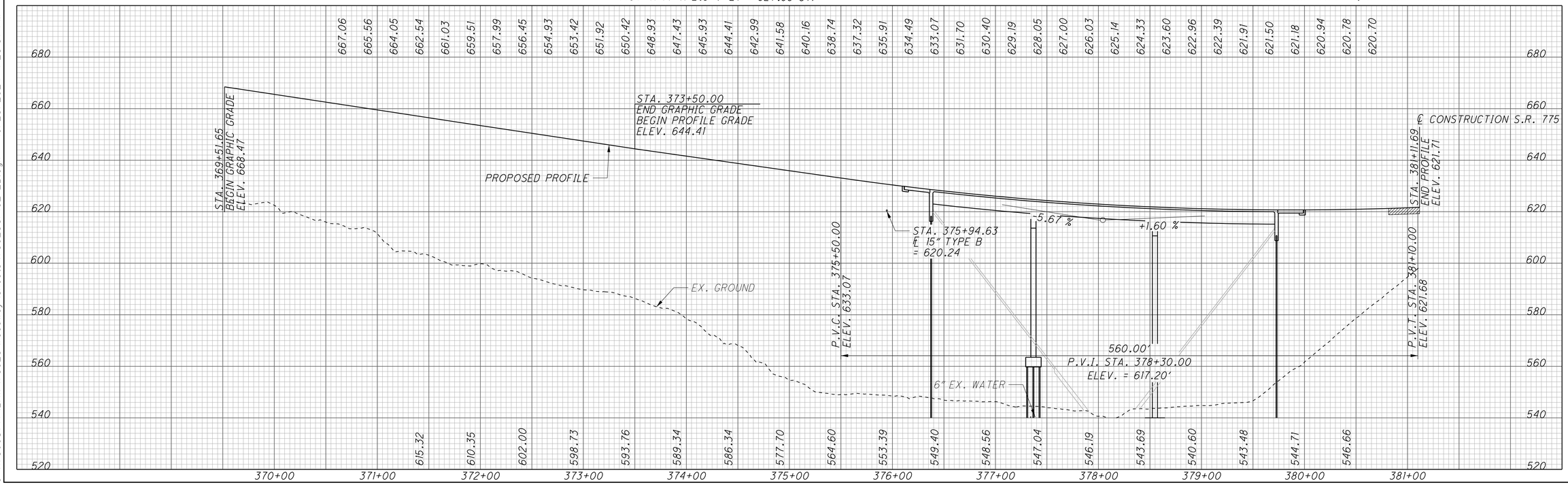
A STA. 379+82.99
BEGIN PAVEMENT TAPER, 0' LT./RT.

STA. 380+32.99
END PAVEMENT TAPER, 5' RT.

STA. 381+11.69
END RAMP =
STA. 54+00.89 S.R. 775 =
STA. 379+57.36 RAMP L

CONSTRUCTION LIMITS

FOR QUANTITIES, SEE SHEETS 71-81
FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 142-145
FOR RAMP L PLAN AND PROFILE, SEE SHEET 457
FOR S.R. 775 PLAN AND PROFILE, SEE SHEETS 559-560
FOR INTERCHANGE DETAILS, SEE SHEETS 619-621
FOR INTERSECTION DETAILS, SEE SHEETS 627
FOR STORM SEWER PROFILES, SEE SHEETS 368 & 643
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-773A
FOR FENCE TABLES, SEE SHEETS 1039-1041



HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN AND PROFILE RAMP I

LAW-7-2.17

431
1247

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(2/EC) ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (30' x 4' x 1.5' / 27 = 6.67 CY)

(4/EC) SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 (77' X 7.5' / 9 = 64.17 SY)

(1/EC) ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (189' x 5.5' x 1.5' / 27 = 57.75 CY)

(3/EC) ROCK CHANNEL PROTECTION, TYPE C WITH FILTER (117' x 9' x 1.5' / 27 = 58.5 CY)

- QUANTITIES ARE INCLUDED IN REFERENCE NUMBER 3-R FOR THE REGRADING OF THE EXISTING GRAVEL PARKING IN THE AREA SHOWN.

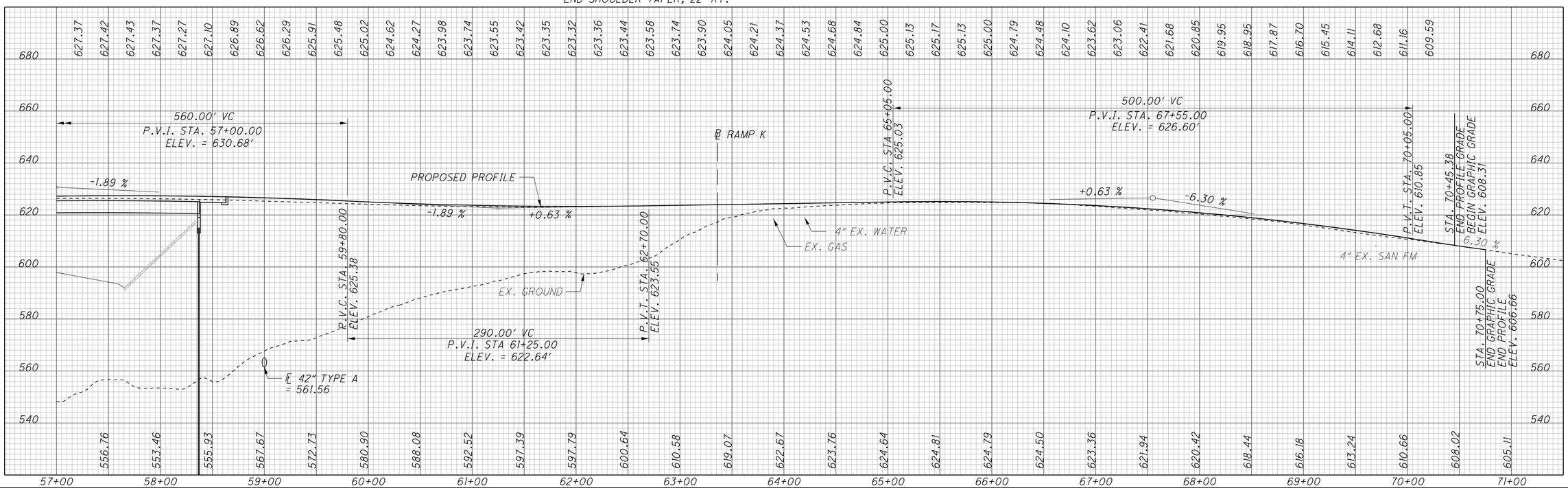
FOR QUANTITIES, SEE SHEETS 71-81
FOR S.R. 7 PLAN & PROFILE, SEE SHEETS 144-145
FOR RAMP K PLAN & PROFILE, SEE SHEETS 442-444
FOR INTERSECTION DETAILS, SEE SHEET 628
FOR DRIVE DETAIL, SEE SHEET 633
FOR CULVERT DETAILS, SEE SHEET 664
FOR UNDERDRAIN TABLES, SEE SHEETS 674-678
FOR TRAFFIC CONTROL PLAN, SEE SHEETS 713-773A
FOR STRUCTURE DETAILS, SEE SHEETS 1015-1038
FOR FENCE TABLES, SEE SHEETS 1039-1041

PROP. LIGHTING PULL BOX
STREAM 17
WETLAND N
CONSTRUCTION LIMITS
Wooded Area
Brush
BTA, TYPE I +48.15
BTA, TYPE I +72.85
MATCH LINE STA. 57+00
STA. 63+36.00 S.R. 775 = STA. 164+75.66 RAMP K
LONG SPAN GUARDRAIL
℄ CONSTRUCTION S.R. 775
WETLAND P
Woven Wire Fence
End Waterline
WATERLINE ABANDONED
SIGNAL STRAIN POLE (TYP.)
SIGNAL STRAIN POLE WITH LUMINAIRE (TYP.)
℄ RAMP K S 56° 38' 23" E
PAVEMENT TO REMAIN
℄ CONSTRUCTION UTILITY ACCESS DRIVE
PROP. LUMINAIRE
℄ CONSTRUCTION S.R. 7
Rock Channel
24" TYPE A
BRIDGE NO. LAW-775-0105
Field Drive
Ex LA-R/W
LA-R/W
Ex R/W
SAN
Ex 4" FORCE MAIN
6"W
OHW
Ex 6"W
Ex 4" SAN
STA. 66+95.00
BEGIN PAVEMENT TAPER, 30' LT.
BEGIN SHOULDER TAPER, 34' LT.
STA. 67+45.00
END PAVEMENT TAPER, 18' LT.
END SHOULDER TAPER, 22' LT.
STA. 67+45.00
BEGIN PAVEMENT TAPER
18' LT./RT.
STA. 61+94.27
BEGIN PAVEMENT TAPER, 30' RT.
BEGIN SHOULDER TAPER, 34' RT.
STA. 62+34.27
END PAVEMENT TAPER, 34' RT.
END SHOULDER TAPER, 38' RT.
STA. 63+93.78
BEGIN PAVEMENT TAPER, 26' RT.
BEGIN SHOULDER TAPER, 30' RT.
STA. 64+73.78
END PAVEMENT TAPER, 18' RT.
END SHOULDER TAPER, 22' RT.
(2/R) MAIL BOX REMOVED AND RESET TO STA. 70+55.51, 19.18' LT.
(C) TYPE E PON +30.01
(D) STA. 60+50.00, 0' LT./RT., S.R. 775 = STA. 10+00.00 UTILITY ACCESS DRIVE
Ex R/W
Wooded Area
RAMP K
P.I.
Mobile Home
Res #933
Porch
Frame Garage
Grave
Cemetery
STREAM 18 OHWM = 587.8
(A) CONC. WALK AND PIPE HANDRAILS
Pen
Res #997
1 Sty Frm
Shed
OH-Fo
Field Dr
Gravel
Asphalt
Edge
Mt Pisgah Church
Conc
Sign
Shed
ODOT Garage
LOT 1
LOT 2
STA. 70+35.00
BEGIN SHOULDER TAPER, 16.73' LT. & 15.16' RT.
STA. 70+75.00
END PAVEMENT TAPER, 12.11' LT. & 9.71' RT.
END SHOULDER TAPER, 14.67' LT. & 12.13' RT.
END WORK
CONSTRUCTION LIMITS

CURVE DATA S.R. 775
P.I. STA. 70+19.99
Δ = 32° 25' 06" (LT)
Dc = 11° 50' 00"
R = 484.19'
T = 140.75'
L = 273.96'
E = 20.04'
e_{max} (N.D.C.) = 4.00%
e_{max} = 1.60%
PC STA. = 68+79.23
PT STA. = 71+53.19

S.R. 775
P.I. STA. 66+62.11
Δ = 0° 43' 32" (RT)
NO CURVE

- DO NOT DISTURB
- PROPOSED PAVEMENT



HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED SLP
CHECKED ALB

PLAN AND PROFILE - S.R. 775
STA. 57+00.00 TO STA. 70+75.00

LAW-7-2.17

560
1247

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REF NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	DRIVE TYPE	APRON LENGTH "L1" (ALONG CENTERLINE)	DRIVEWAY LENGTH "L2" (ALONG CENTERLINE)	WIDTH "W"	202	203		204	304	601	606		659
									PIPE REMOVED, 24" AND UNDER	EXCAVATION	EMBANKMENT	SUBGRADE COMPACTION	8" AGGREGATE BASE	SLOPE PROTECTION, MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 AND PERCUSSION DRIVEN EARTH ANCHORS	GUARDRIAL, TYPE MGS HALF POST SPACING WITH LONG POSTS	ANCHOR ASSEMBLY, MGS TYPE T	SEEDING AND MULCHING, CLASS 3C
						FT	FT	FT	FT	CY	CY	SY	CY	SY	FT	EACH	SY
DRIVE - 13																	
13-DR	638A	314+30.33	315+55.42	LT	TAR	115.39		9.6 - 35		502	3267	270.95	51.54				377
1-EC	638A	10+02.58	11+40.00	RT/LT										1108.10			
1-GR	638A	10+82.12	10+82.12	RT/LT											37.5		
2-GR	638A	10+85.55	11+99.36	RT											100	1	
1-R	638A	11+65.68	11+63.79	RT/LT					21								
DRIVE - 14																	
14-DR	638A	314+90.46	314+23.71	RT	TAR	37.03		18		420	63	105.05	22.01				431
2-EC	638A	50+47.61	51+11.31	RT/LT										279.36			
TOTALS									21	922	3330	376	74	1387.46	137.5	1	808
TOTALS CARRIED TO GENERAL SUMMARY									21	922	3330	376	74	1388	137.5	1	808

NOTES:

TAR DENOTES TURNAROUND, RES DENOTES RESIDENTIAL, COMM DENOTES COMMERCIAL

CALCULATED SLP
CHECKED ALB

DRIVE & TURNAROUND SUBSUMMARY

LAW-7-2.17

629A
1247

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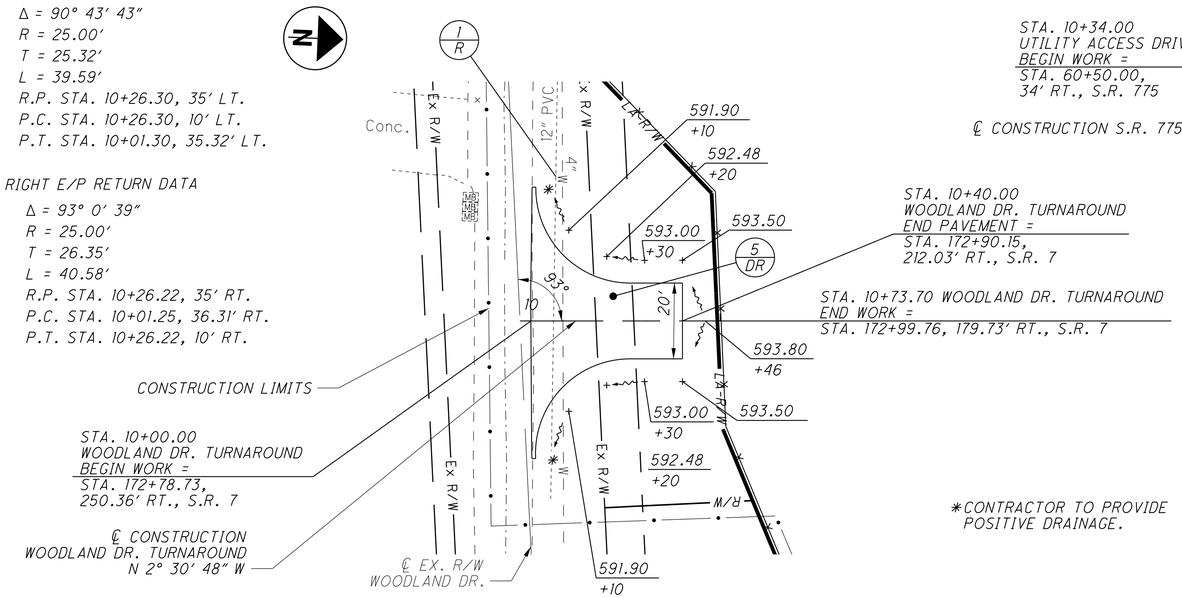
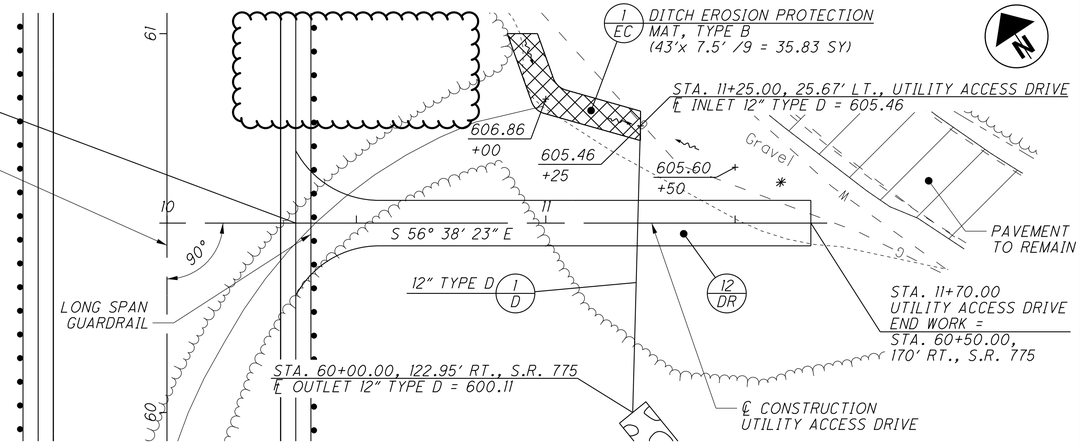
LEFT E/P RETURN DATA
Δ = 90° 43′ 43″
R = 25.00′
T = 25.32′
L = 39.59′
R.P. STA. 10+26.30, 35′ LT.
P.C. STA. 10+26.30, 10′ LT.
P.T. STA. 10+01.30, 35.32′ LT.

RIGHT E/P RETURN DATA
Δ = 93° 0′ 39″
R = 25.00′
T = 26.35′
L = 40.58′
R.P. STA. 10+26.22, 35′ RT.
P.C. STA. 10+01.25, 36.31′ RT.
P.T. STA. 10+26.22, 10′ RT.

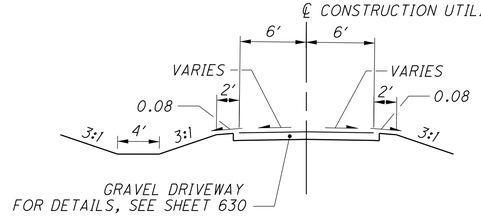


*CONTRACTOR TO PROVIDE POSITIVE DRAINAGE.



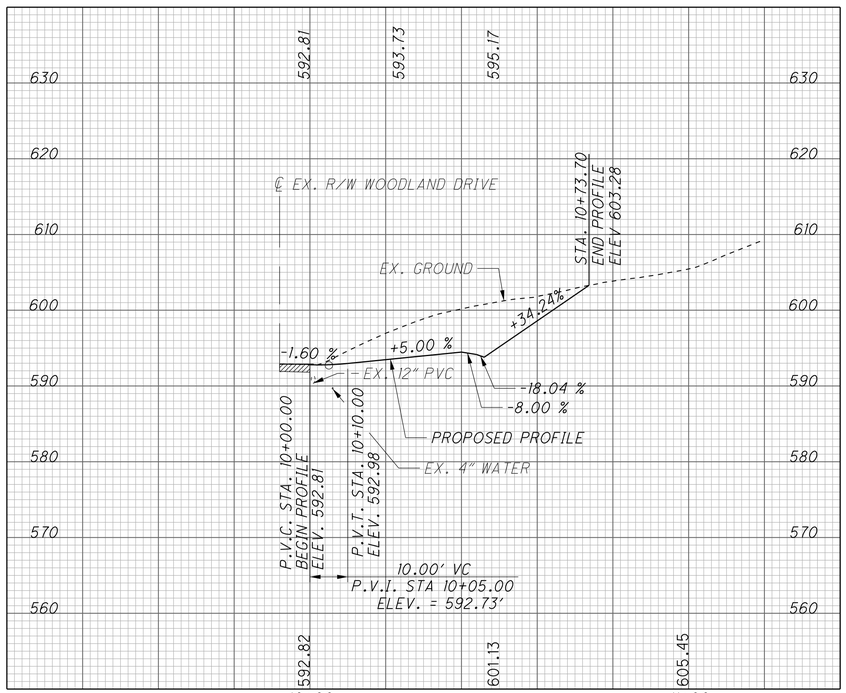
LEFT E/P RETURN DATA
Δ = 61° 38′ 33″
R = 25.00′
T = 14.92′
L = 26.90′
R.P. STA. 10+56.00, 31′ LT.
P.C. STA. 10+34.00, 19.13′ LT.
P.T. STA. 10+56.00, 6′ LT.

RIGHT E/P RETURN DATA
Δ = 61° 38′ 33″
R = 25.00′
T = 14.92′
L = 26.90′
R.P. STA. 10+56.00, 31′ RT.
P.C. STA. 10+34.00, 19.13′ RT.
P.T. STA. 10+56.00, 6′ RT.

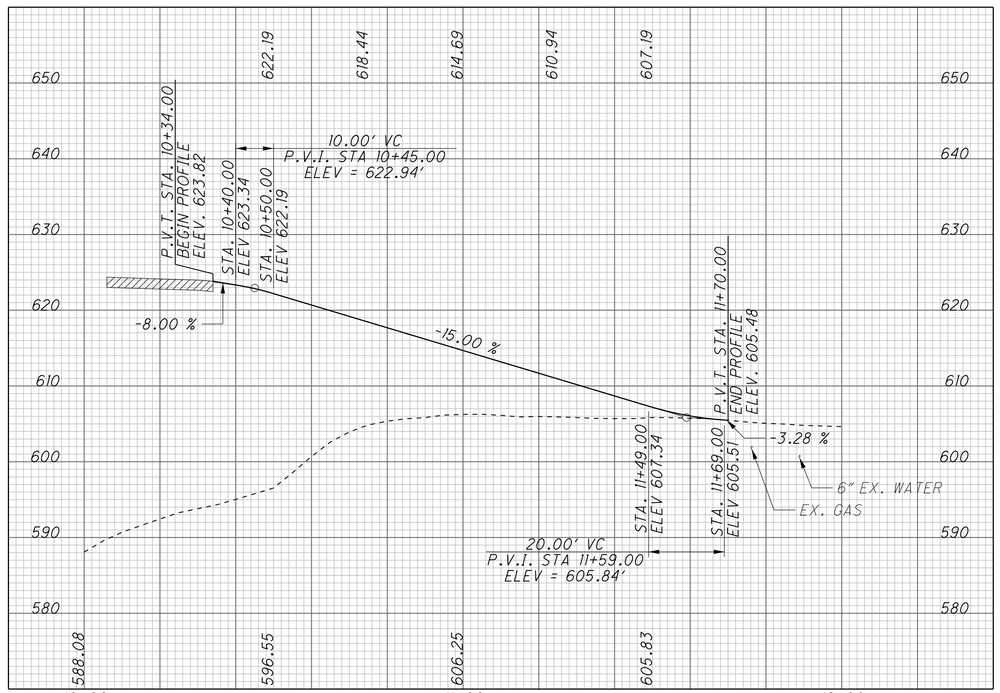


TYPICAL SECTION - UTILITY ACCESS DRIVE
NOT TO SCALE

WOODLAND DRIVE TURNAROUND - 5



UTILITY ACCESS DRIVE - 12



HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED ALB
CHECKED TCM

WOODLAND DRIVE TURNAROUND
UTILITY ACCESS DRIVE

LAW-7-2.17

633
1247

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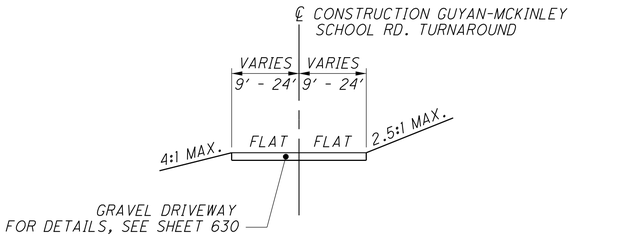
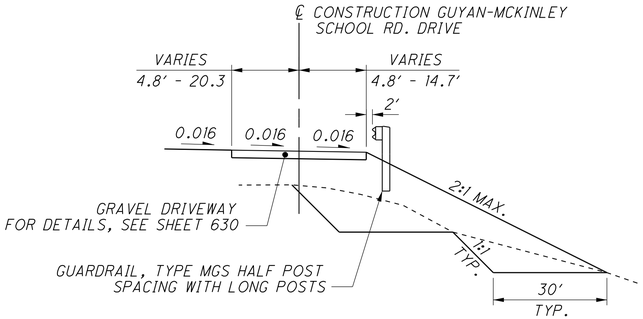
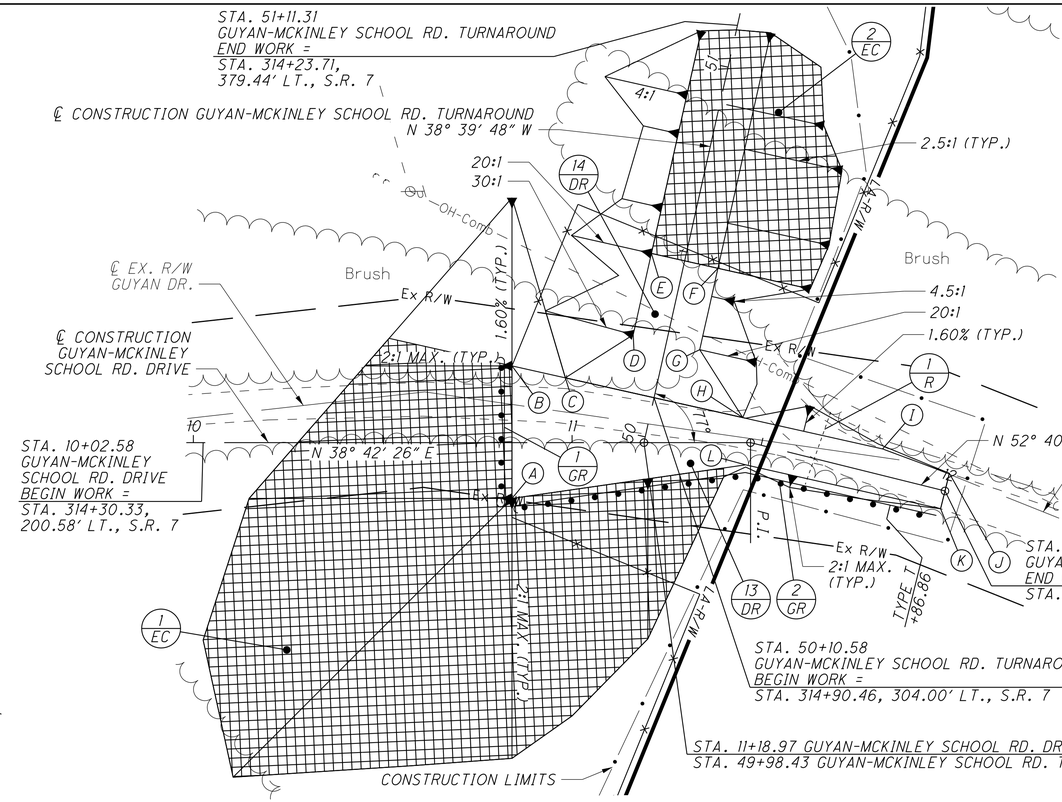


TYPICAL SECTION - GUYAN-MCKINLEY SCHOOL RD. TURNAROUND
NOT TO SCALE



TYPICAL SECTION - GUYAN-MCKINLEY SCHOOL RD. DRIVE
NOT TO SCALE

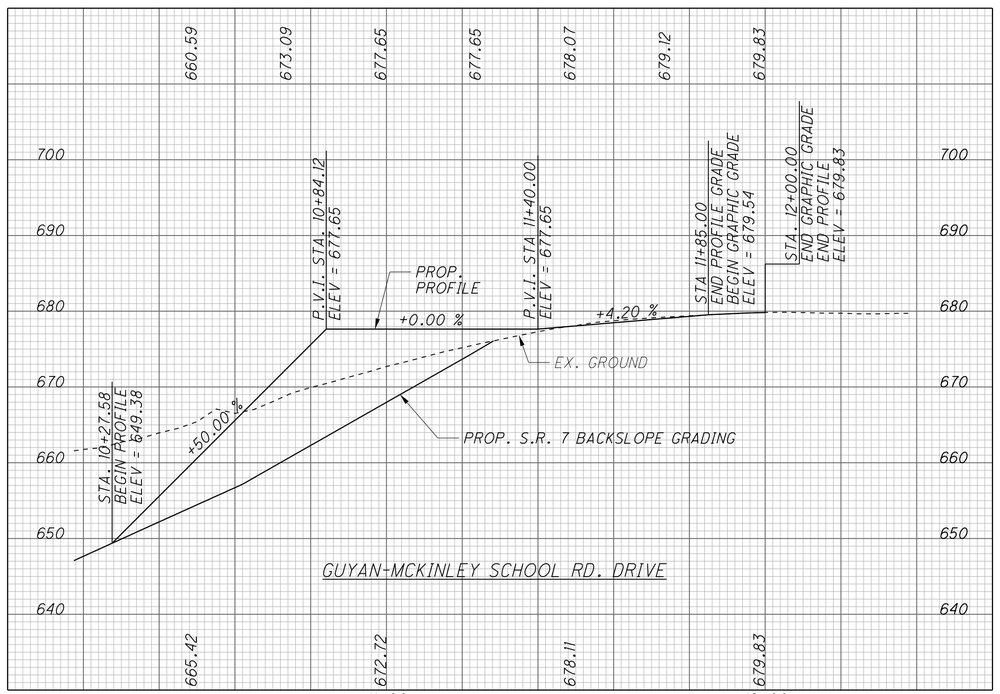


(A) STA. 10+84.12, GUYAN-MCKINLEY SCHOOL RD. DRIVE, 14.74' RT.
(B) STA. 10+84.12, GUYAN-MCKINLEY SCHOOL RD. DRIVE, 20.26' LT.
(C) STA. 50+10.58, GUYAN-MCKINLEY SCHOOL RD. TURNAROUND, 24' LT.
(D) STA. 50+25.58, GUYAN-MCKINLEY SCHOOL RD. TURNAROUND, 9' LT.
(E) STA. 50+47.61, GUYAN-MCKINLEY SCHOOL RD. TURNAROUND, 9' LT.
(F) STA. 50+47.61, GUYAN-MCKINLEY SCHOOL RD. TURNAROUND, 9' RT.
(G) STA. 50+25.58, GUYAN-MCKINLEY SCHOOL RD. TURNAROUND, 9' RT.
(H) STA. 50+10.58, GUYAN-MCKINLEY SCHOOL RD. TURNAROUND, 24' RT.
(I) STA. 11+81.33, GUYAN-MCKINLEY SCHOOL RD. DRIVE, 6.8' LT.
(J) STA. 12+00.00, GUYAN-MCKINLEY SCHOOL RD. DRIVE, 4.81' LT.
(K) STA. 12+00.42, GUYAN-MCKINLEY SCHOOL RD. DRIVE, 4.80' RT.
(L) STA. 11+45.79, GUYAN-MCKINLEY SCHOOL RD. DRIVE, 5.85' RT.

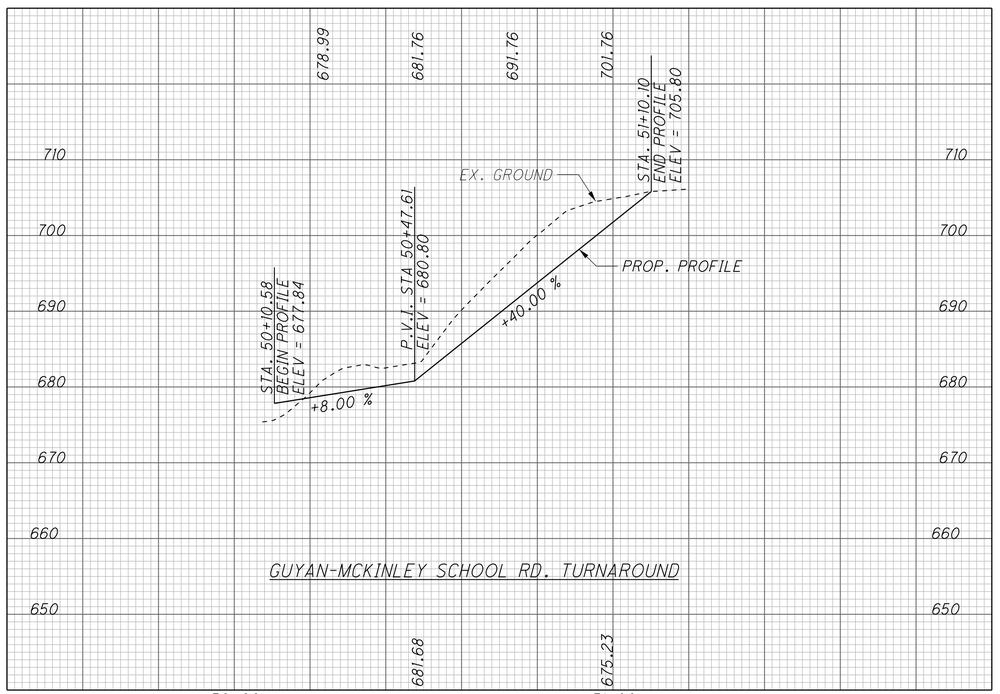
1 EC — SLOPE PROTECTION, MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 AND PERCUSSION DRIVEN EARTH ANCHORS (9,972.90 SF / 9 = 1,108.10 SY)

2 EC — SLOPE PROTECTION, MISC.: SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3 AND PERCUSSION DRIVEN EARTH ANCHORS (2,514.25 SF / 9 = 279.36 SY)

GUYAN-MCKINLEY SCHOOL RD. DRIVE - 13
GUYAN-MCKINLEY SCHOOL RD. TURNAROUND - 14



GUYAN-MCKINLEY SCHOOL RD. DRIVE



GUYAN-MCKINLEY SCHOOL RD. TURNAROUND

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED ALB
CHECKED TCM

GUYAN DRIVE
TURNAROUND

LAW-7-2.17

638A
1247

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DETENTION BASIN AREA #1	
PONDED WATER SURFACE ELEVATION:	539.25
OUTFLOW PIPE TAILWATER (OHWM):	525.1

BOOTHE EATON ROAD

100 YEAR FLOOD LIMITS

CATCH BASIN NO. 2-3, AS PER PLAN
STA. 198+46.45, 235.47' LT., S.R. 7
T/GR = 540.92
WINDOW = 540.00
15" INV. = 534.50
6" UNDERDRAIN INV. = 533.00
4" PREFABRICATED WYE INV = 536.92
2" ORIFICE INV. = 537.00
BOTTOM OF BASIN = 532.50

℄ EX. R/W & CONSTRUCTION C.R. 104

DETENTION BASIN ACCESS DRIVE
WITH 8" GRAVEL
MAX. GRADE = 29%

ROCK CHANNEL
PROTECTION, TYPE B
(30" THICK)

15" TYPE C

HW-2.1
℄ = 534.25

TOP OF WEIR
ELEVATION = 539.50'

TOP OF BERM
ELEVATION = 541.50'
2' WIDE AT TOP

ITEM 601 - DETENTION
BASIN FILTER, 6" THICK

ITEM 601 - DETENTION
BASIN FILTER, 6" THICK

36" TYPE C

15" TYPE C

ROCK CHANNEL
PROTECTION, TYPE C
(10'x23'x1.5')

6" UNDERDRAIN

LOW FLOW CHANNEL

ITEM 670 - SLOPE
EROSION PROTECTION

CONSTRUCTION LIMITS

POND 2

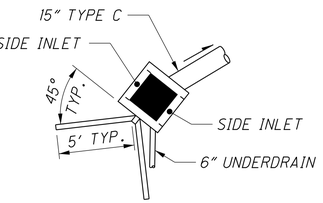
100 YEAR FLOOD LIMITS

FUTURE WESTBOUND LANES

℄ CONSTRUCTION S.R. 7

SYMMES CREEK 3

INSET



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED EDA
CHECKED ALB

DRAINAGE DETAILS
DETENTION BASIN #1

LAW-7-2.17

665
1247

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DETENTION BASIN AREA #2	
PONDED WATER SURFACE ELEVATION:	535
OUTFLOW PIPE TAILWATER (OHWM):	525.1

CATCH BASIN NO. 2-3, AS PER PLAN
STA. 202+77.22, 193.62' LT., S.R. 7
T/GR = 535.52
WINDOW = 534.60
15" INV = 529.77
6" UNDERDRAIN INV. = 527.00
4" PREFABRICATED WYE INV.= 530.90
1.7" ORIFICE INV = 531.00
BOTTOM OF BASIN = 526.50

ITEM 601 - DETENTION BASIN FILTER, 6" THICK

TOP OF BERM ELEVATION = 535.00
1' WIDE AT TOP

6" UNDERDRAIN

STREAM 8

ROCK CHANNEL PROTECTION, TYPE B (30" THICK)

15" TYPE C

HW-2.1

℄ = 529.00

TOP OF WEIR ELEVATION = 533.90'

CONSTRUCTION LIMITS

72'

35'

ROCK CHANNEL PROTECTION, TYPE C (10'x8'x1.5')

ITEM 670 - SLOPE EROSION PROTECTION

LOW FLOW CHANNEL

DETENTION BASIN ACCESS DRIVE, WITH 8" GRAVEL MAX. GRADE = 26%

LONG SPAN GUARDRAIL TO BE ADDED FOR ACCESS DRIVE

EATON ROAD

℄ EX. R/W & CONSTRUCTION C.R. 32

100 YEAR FLOOD LIMITS

℄ CONSTRUCTION LYNN LANE

60" TYPE A

Abandoned Pole

Guy Pole

Guy Wire

WETLAND F

FUTURE WESTBOUND LANES

℄ CONSTRUCTION S.R. 7

EX. ℄ R/W LYNN LANE

Picket Fence

100 YEAR FLOOD LIMITS

INSET

SIDE INLET
15" TYPE C
SIDE INLET
6" UNDERDRAIN
45° TYP.
5' TYP.

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED EDA
CHECKED ALB

DRAINAGE DETAILS
DETENTION BASIN #2

LAW-7-2.17

666
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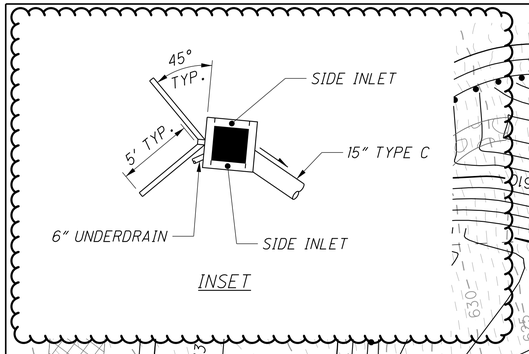
DETENTION BASIN AREA #3	
PONDED WATER SURFACE ELEVATION:	590
OUTFLOW PIPE TAILWATER:	586.8



INSET

6" UNDERDRAIN

CATCH BASIN NO. 2-3, AS PER PLAN
STA. 255+52.30, 209.01' LT., S.R. 7
T/GR = 589.82
WINDOW = 588.90
15" INV. = 585.60
6" UNDERDRAIN INV. = 582.00
4" PREFABRICATED WYE INV. = 585.96
3" ORIFICE INV. = 586.00
BOTTOM OF BASIN = 581.50

ITEM 601 - DETENTION BASIN FILTER, 6" THICK

℄ CONSTRUCTION C.R. 69

℄ CONSTRUCTION S.R. 243

DETENTION BASIN #3 ACCESS DRIVE WITH 8" GRAVEL MAX. GRADE = 33%

92.6'

61.2'

10'

ROCK CHANNEL PROTECTION, TYPE C (30'x15'x1.5')

LOW FLOW CHANNEL

42" TYPE A

15" TYPE C

HW-2.1
℄ = 584.30'

TOP OF WEIR ELEVATION = 588.90

26'

43'

54'

ROCK CHANNEL PROTECTION, TYPE B (30" THICK)

ITEM 670 - SLOPE EROSION PROTECTION

TOP OF BERM BETWEEN THE FOREBAY AND MICROPOOL IS AT ELEVATION 586.6'

TOP OF BERM ELEVATION = 592.00
6' WIDE AT TOP

54" TYPE B

15" TYPE F

℄ CONSTRUCTION S.R. 7

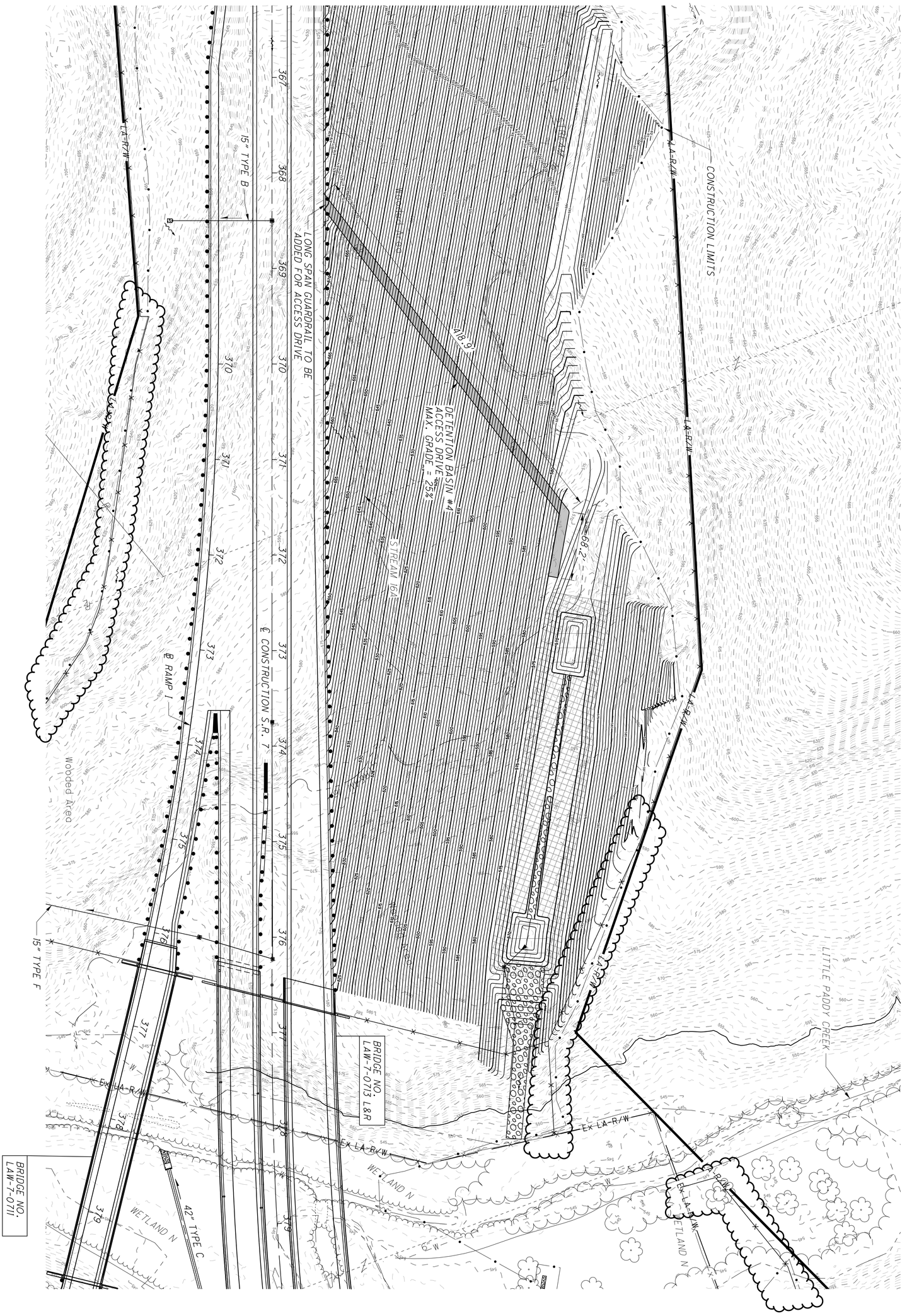
HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED EDA
CHECKED ALB

DRAINAGE DETAILS
DETENTION BASIN #3

LAW-7-2.17

667
1247



668 / 1247	LAW-7-2.17	DRAINAGE DETAILS DETENTION BASIN #4	CALCULATED EDA CHECKED ALB	0 25 50 100 HORIZONTAL SCALE IN FEET

DETENTION BASIN AREA #3	
PONDED WATER SURFACE ELEVATION:	590
OUTFLOW PIPE TAILWATER:	586.8

CONSTRUCTION LIMITS

LA-R/W

ITEM 601 - DETENTION BASIN FILTER, 6" THICK

100 YEAR FLOOD LIMITS

TOP OF BERM ELEVATION = 571.50 2' WIDE AT TOP

TOP OF WEIR ELEVATION = 571.50

HW-2.1 E = 566.00

WETLAND N

EX LA-R/W

ROCK CHANNEL PROTECTION, TYPE B (30" THICK)

DETENTION BASIN #4 ACCESS DRIVE MAX. GRADE = 25%

ROCK CHANNEL PROTECTION, TYPE C (258'x8'x1.5')

LOW FLOW CHANNEL

ITEM 670 - SLOPE EROSION PROTECTION

30'

15" TYPE C

47'

38'

98'

16'

6" UNDERDRAIN

STREAM 16

STREAM 16A

CATCH BASIN NO. 2-3, AS PER PLAN
STA. 376+31.24, 243.05' LT., S.R. 7
T/GR = 571.68
WINDOW = 572.60
15" INV. = 567.50
6" UNDERDRAIN INV. = 566.00
4" PREFABRICATED WYE INV. = 569.94
2.6" ORIFICE INV. = 570.00
BOTTOM OF BASIN = 565.00

SIDE INLET
6" UNDERDRAIN
15" TYPE C
5' TYP.
45° TYP.
SIDE INLET

INSET

BRIDGE NO. LAW-7-0713 L&R

100 YEAR FLOOD LIMITS

EX LA-R/W

HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED EDA
CHECKED ALB

DRAINAGE DETAILS DETENTION BASIN #4

LAW-7-2.17

669
1247

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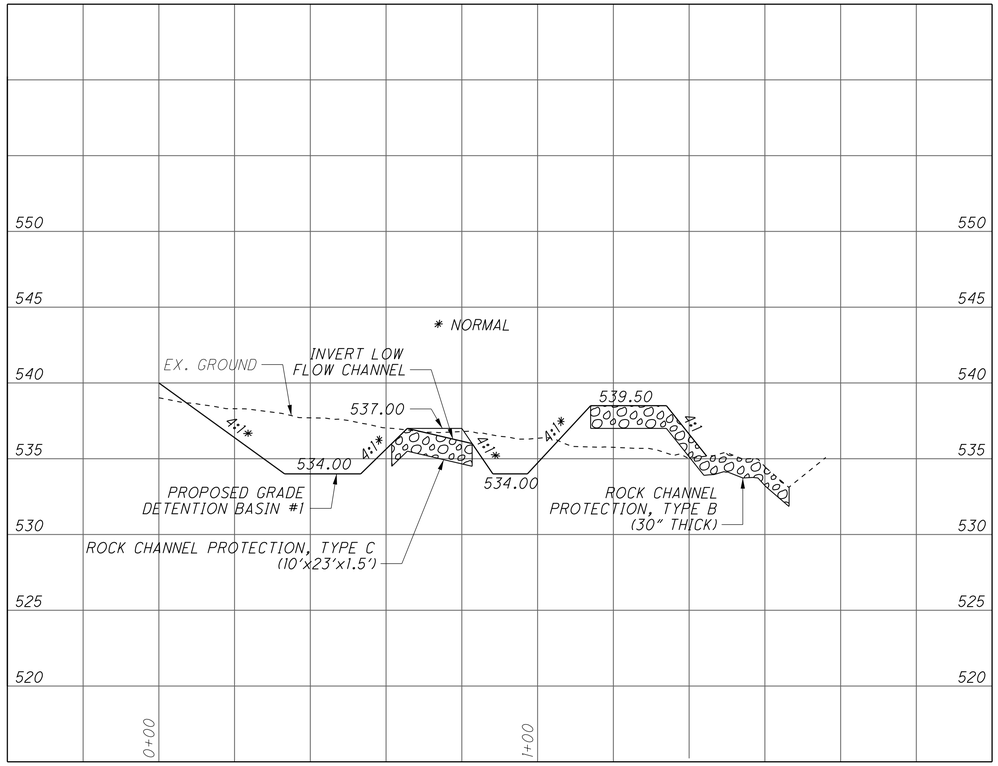
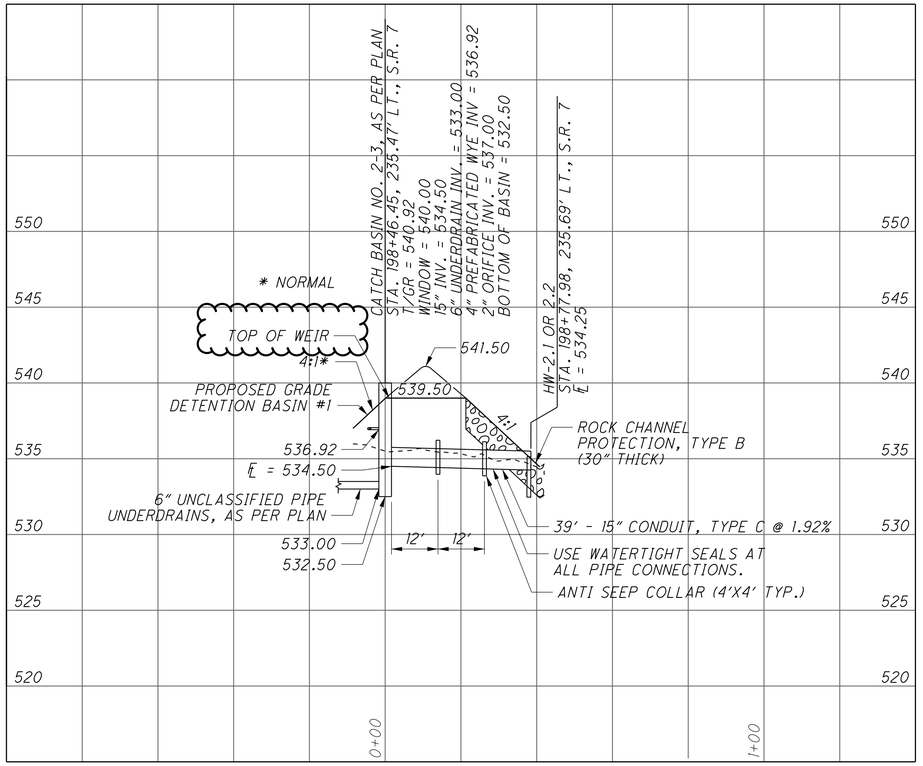


DETENTION BASIN #1 PROFILE



DETENTION BASIN #1 STORM SEWER PROFILE

NOTES TO APPLY TO ALL DETENTION BASINS:

CATCH BASIN NO. 2-3, AS PER PLAN SHALL BE CONSTRUCTED PER SCD WO-1.1 AND SHALL INCLUDE THE COST OF THE ASSOCIATED 4" PREFABRICATED WYE AND ORIFICE CAP AND THE LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS WORK.

ANTI-SEEP COLLAR TO BE CONSTRUCTED PER SCD WO-1.2

6" UNCLASSIFIED UNDERDRAINS, AS PER PLAN: THIS ITEM SHALL MEET 707.31, EXCEPT TRENCHING AND BACKFILLING REQUIREMENTS ARE WAIVED AND PERFORATIONS SHALL BE TWO ROWS OF 3/8" DIAMETER HOLES SPACED EVERY 6".

ITEM	TOTAL	UNIT	DESCRIPTION
203	364.98	CY	EXCAVATION
203	762.87	CY	EMBANKMENT, USING NATURAL SOILS, 703.16A
204	57.32	SY	SUBGRADE COMPACTION
304	12.74	CY	AGGREGATE BASE
601	260.12	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER
601	12.78	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
601	553.42	SY	DETENTION BASIN FILTER
602	0.75	CY	CONCRETE MASONRY
605	46	FT	6" UNCLASSIFIED UNDERDRAINS, AS PER PLAN
611	1	EACH	CATCH BASIN, NO. 2-3, AS PER PLAN
611	39	FT	15" CONDUIT, TYPE C
659	1258.80	SY	SEEDING AND MULCHING, CLASS 3C
670	510.37	SY	SLOPE EROSION PROTECTION

QUANTITIES CARRIED TO THE SUBSUMMARY, SEE SHEET 74

CALCULATED EDA
CHECKED ALB

0 20 40
SCALE IN FEET

DRAINAGE DETAILS
DETENTION BASIN PROFILES

LAW-7-2.17

670
1247

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

SBR-1-20 REVISED 07-21-23

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

800 DATED 01-19-24
869 DATED 10-17-14

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

CONCRETE CLASS QC1:
COMPRESSIVE STRENGTH 4.0 KSI (RETAINING WALL)

CONCRETE REINFORCEMENT:

EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60-KSI (RETAINING WALL AND FOUNDATION)

FOUNDATION BEARING RESISTANCE

RETAINING WALL FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 3.27 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 7.25 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 11.3 KIPS PER SQUARE FOOT.

ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN

LIMITS OF EXCAVATION SHALL BE AS SHOWN IN PLANS. BACKFILL SHALL BE GRANULAR MATERIAL TYPE B.

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN TEH PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.

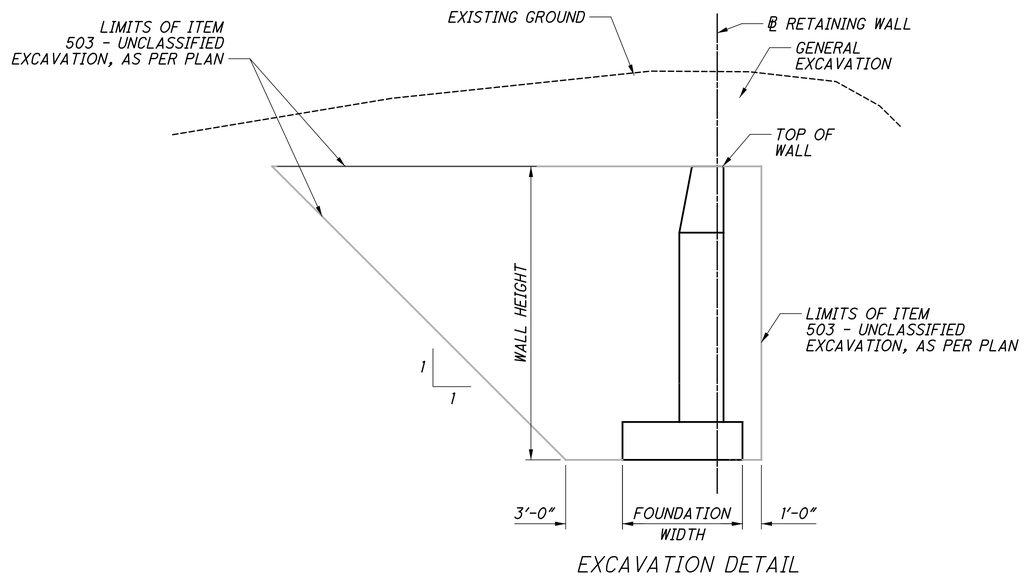
ABBREVIATIONS

ABUT.	- ABUTMENT
APPR.	- APPROACH
APPROX.	- APPROXIMATELY
B/	- BOTTOM OF
BOT.	- BOTTOM
BRG.	- BEARING
℄	- CENTERLINE
C/C	- CENTER TO CENTER
CJ	- CONSTRUCTION JOINT
CLR.	- CLEAR
CONST.	- CONSTRUCTION
DIA.	- DIAMETER
DWG.	- DRAWING
EF	- EACH FACE
EL.	- ELEVATION
EQ.	- EQUAL
EX.	- EXISTING
EXP	- EXPANSION
F.A.	- FORWARD ABUTMENT
F.F.	- FRONT FACE
℄	- FLOW LINE
HORIZ.	- HORIZONTAL
H.W.	- HIGH WATER
LT.	- LEFT
MAX	- MAXIMUM
MIN.	- MINIMUM
N.F.	- NEAR FACE
NO.	- NUMBER
O/O	- OUT TO OUT
OHW	- ORDINARY HIGH WATER MARK
PVMT.	- PAVEMENT
R.A.	- REAR ABUTMENT
REF.	- REFERENCE
RT.	- RIGHT
SHLD.	- SHOULDER
SP	- SETTLEMENT PLATFORM
SPA.	- SPACE
STA.	- STATION
STD.	- STANDARD
T/	- TOP OF
T/T	- TOE TO TOE
TEMP.	- TEMPORARY
TYP.	- TYPICAL
VERT.	- VERTICAL
YR.	- YEAR

ESTIMATED QUANTITIES

CALCULATED BY: BSM 02/12/24
CHECKED BY: EDA 02/28/24

01/NHS/01	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
4,811	503	21101	4,811	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	
101,808	509	10001	101,808	POUND	EPOXY COATED REINFORCING STEEL	
480	511	46012	480	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING WALL/WINGWALL NOT INCLUDING FOOTING	
371	511	46512	371	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
740	512	10100	740	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
46	512	33000	46	SY	TYPE 2 WATERPROOFING	
440	516	13200	440	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
362	518	20000	362	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
310	622	10160	310	LF	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
1	622	25000	1	EACH	CONCRETE BARRIER END SECTION, TYPE D	



EXCAVATION DETAIL

CALCULATED JWS
CHECKED BSM

RAMP J & K RETAINING WALL NOTES AND QUANTITIES

LAW-7-2.17

707
1247

SHEET NUMBER										PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		714	715	716	717	719	720	721		01/NHS/01							
					10.99					10.99		618	41000	10.99	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
					3.44					3.44		618	43000	3.44	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
		612	488							1100		621	00100	1100	EACH	RPM	
								4		4		625	32000	4	EACH	GROUND ROD	
						2647	268			2915		630	03100	2915	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
								103.1		~~103.1~~		630	06400	~~103.1~~	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
								42.6		42.6		630	06500	42.6	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9	
								96.6		96.6		630	07000	96.6	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18	
								179.5		179.5		630	07600	179.5	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
								331.7		331.7		630	08000	331.7	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30	
						73.0				73.0		630	08004	73.0	FT	ONE WAY SUPPORT, NO. 3 POST	
						111				111		630	08520	111	FT	STREET NAME SIGN SUPPORT, NO. 3 POST	
						76				76		630	08600	76	EACH	SIGN POST REFLECTOR	
								32		32		630	09000	32	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
								1		1		630	72420	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2	
								1		1		630	76530	1	EACH	SPAN WIRE SIGN SUPPORT, TYPE TC-17.11, DESIGN 10	
						2				2		630	79600	2	EACH	SIGN SUPPORT ASSEMBLY, BRIDGE MOUNTED, TYPE 1	
						1316.6	70.2	90		1476.8		630	80100	1476.8	SQ FT	SIGN, FLAT SHEET	
								1519		~~1519~~		630	80200	~~1519~~	SQ FT	SIGN, GROUND MOUNTED EXTRUSHEET	
								1028		1028		630	80224	1028	SQ FT	SIGN, OVERHEAD EXTRUSHEET	
								35		35		630	80400	35	SQ FT	SIGN, PERMANENT OVERLAY	
						8				8		630	80500	8	EACH	SIGN, DOUBLE FACED, STREET NAME	
								32		32		630	84500	32	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
								2		2		630	84510	2	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
								2		2		630	84520	2	EACH	SPAN WIRE SIGN SUPPORT FOUNDATION	
							103			103		630	84900	103	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
						1				1		630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
							67			67		630	86002	67	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							4			4		630	86102	4	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
							6			6		630	87400	6	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
							1			1		630	89702	1	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	
		19.89								19.89		644	00104	19.89	MILE	EDGE LINE, 6"	
		5.86								5.86		644	00204	5.86	MILE	LANE LINE, 6"	
			5.59							5.59		644	00300	5.59	MILE	CENTER LINE	
			7145							7145		644	00404	7145	FT	CHANNELIZING LINE, 12"	
				388						338		644	00500	338	FT	STOP LINE	
				2077						2077		644	00700	2077	FT	TRANSVERSE/DIAGONAL LINE	
				394						394		644	00720	394	FT	CHEVRON MARKING	
				55						55		644	00900	55	SQ FT	ISLAND MARKING	
			20							20		644	01300	20	EACH	LANE ARROW	
		12								12		644	01350	12	EACH	LANE REDUCTION ARROW	
			2							2		644	01360	2	EACH	WRONG WAY ARROW	
			2							2		644	01410	2	EACH	WORD ON PAVEMENT, 96"	
				10459						10459		644	01510	10459	FT	DOTTED LINE, 6"	
				57						57		644	20800	57	FT	YIELD LINE	
				1735						1735		644	30000	1735	FT	REMOVAL OF PAVEMENT MARKING	
		1.12								1.12		646	10010	1.12	MILE	EDGE LINE, 6"	
		0.21								0.21		646	10110	0.21	MILE	LANE LINE, 6"	
			0.32							0.32		646	10200	0.32	MILE	CENTER LINE	
			633							633		646	10310	633	FT	CHANNELIZING LINE, 12"	
			5							5		646	20300	5	EACH	LANE ARROW	
				808						808		646	20504	808	FT	DOTTED LINE, 6"	

CALCULATED EAE
CHECKED MJH

TRAFFIC CONTROL GENERAL SUMMARY

LAW-7-2.17

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	SIGN CODE	630 GROUND MOUNTED SUPPORT, NO. 3 POST (FT)	630 SIGN POST REFLECTOR (EACH)	630 SIGN, FLAT SHEET (SQ. FT)
739	S-61	NB CR 69	52+75	RT	W1-1aL	14.1		6.25
	S-62	NB CR 69	6 LOCATIONS	RT	W1-8R(L)	38.0	6	18
▼	S-63	SB CR 69	59+00	LT	W1-1aR	14.1		6.25
740	S-64	NB SR 7	303+00	RT	W6-2	15.8		9
	S-65	NB SR 7	314+90	RT	R4-7	15 / 15		12
	S-66	NB SR 7	314+90	LT	R5-1	14.5	1	9
	S-67a	SB SR 7	320+00	LT	R5-1a	13.5	1	6
	S-67b	SB SR 7	320+00	LT	R5-1a	13.5	1	6
	S-68	NB SR 7	324+00	RT	R4-3	16 / 16.5		12
	S-69a	SB SR 7	326+50	LT	W4-2L	15 / 15.5		16
▼	S-69b	SB SR 7	326+50	LT	W4-2L	15 / 15		16
741	S-70a	SB SR 7	334+00	LT	W4-2L	15 / 15.5		16
	S-70b	SB SR 7	334+00	LT	W4-2L	15 / 15		16
	S-71a	SB SR 7	341+00	LT	W6-2	15 / 15.5		16
▼	S-71b	SB SR 7	341+00	LT	W6-2	15 / 15		16
742	S-72	SB SR 7	362+00	LT	R2-1	16 / 16.5		12
	S-73	SB SR 7	368+00	LT	M3-3	15 / 15.5		4.5
▼					M1-5			9
744	S-74	RAMP J	8 LOCATIONS	RT	W1-8R	100.0	8	16
745					M3-3			2.0
	S-75	SB SR 775	68+00	LT	M1-5	16.8		4.0
					M5-1			2.19
	S-76	SB SR 775	74+50	LT	M2-1	13.5		2.0
▼					M1-5			4.0
747	S-77	NB SR 7	411+00	RT	R2-1	16 / 16.5		12
	S-78a	NB SR 7	415+00	RT	W6-2	15 / 15.5		16
	S-78b	NB SR 7	415+00	RT	W6-2	15 / 15		16
	S-79a	NB SR 7	420+00	RT	W4-2L	15 / 15.5		16
	S-79b	NB SR 7	420+00	RT	W4-2L	15 / 15		16
	S-80a	NB SR 7	427+00	RT	R5-1a	12 / 12.5	1	5
▼	S-80b	NB SR 7	427+00	RT	R5-1a	12 / 12	1	5
748	S-81	SB SR 7	432+70	RT	R4-7	14.6		12
	S-82	NB SR 7	432+70	RT	R5-1	15.5	1	9
▼	S-83	SB SR 7	444+55	RT	W6-1	14		9
750	S-84 THRU S-105 - SEE COLUMN "D"							
751	S-106	FOREST DR	NO OUTLET	-	W-14-2	14.0		6.25
	S-107	BOOTHE EATON	NO OUTLET	-	W-14-2	14.0		6.25
	S-108	FOREST DR	3 OM-4 SIGNS	-	OM-4	39.0		4.69
	S-109	WOODLAND DR	3 OM-4 SIGNS	-	OM-4	39.0		4.69
	S-110	HENSON HOLLOW	NO OUTLET	-	W-14-2	14.0		6.25
▼	S-111	HENSON HOLLOW	3 OM-4 SIGNS	-	OM-4	39.0		4.69
752	S-112	FOREST DR	NO OUTLET	-	W-14-2	13.5		6.25
752	S-113	FOREST DR	3 OM-4 SIGNS	-	OM-4	39.0		4.69
753	S-114	DOGWOOD LANE	3 OM-4 SIGNS	-	OM-4	39.0		4.69
737	S-118	OLD SR 243	3 OM-4 SIGNS	-	OM-4	39.0		4.69
740	S-119	GUYAN MCKINLEY	3 OM-4 SIGNS	-	OM-4	39.0		4.69
					TOTALS - COLUMN "C"	1106.3	20	410.0

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	SIGN CODE	630 GROUND MOUNTED SUPPORT, NO. 3 POST (FT)	630 ONE WAY SUPPORT, NO. 3 POST (FT)	630 STREET NAME SIGN SUPPORT, NO. 3 POST (FT)	630 SIGN POST REFLECTOR (EACH)	630 SIGN SUPPORT ASSEMBLY, BRIDGE MOUNTED, TYPE 1 (FT)	630 SIGN, FLAT SHEET (SQ. FT)	630 SIGN DOUBLE FACED, STREET NAME (EACH)	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION (EACH)
753	S-115	LYNN LANE 1	10+20	LT	R1-1			15.5			6.25		
					D3-1							1	
	S-116	LYNN LANE 2	13+92	LT	R1-1			15.5			6.25		
					D3-1							1	
	S-117	DOGWOOD LN	10+16	LT	R1-1			15.5			6.25		
▼					D3-1							1	
750	S-84	NB SR 775	42+50	RT	M1-5	13.3					4.0		
					M2-1						2.19		
	S-85	NB SR 775	46+00	RT	R4-H3A	13.0					5.0		
	S-86	NB SR 775	50+50	RT	R2-1	12.5					7.5		
	S-87	NB SR 775	55+20	RT	R3-7	12.5					9.0		
	S-88	NB SR 775	65+00	RT	EXIST.	14.0							1
	S-89	NB SR 775	67+00	RT	M1-5	12.8					5.0		
					M2-1						2.19		
	S-90	NB SR 775	69+00	RT	R2-1	12.5					7.5		
	S-91	SB SR 775	68+00	LT	M3-3						2.0		
					M1-5	14.0/14.5					4.0		
					M5-1						2.19		
	S-92	SB SR 775	68+00	LT	M3-1						2.0		
					M1-5	14.5/15.0					4.0		
					M6-3						2.19		
	S-93	SB SR 775	64+00	LT	R3-H8ca	13.5/14.0					10.0		
	S-94	SB SR 775	52+00	LT	R3-7L	14.0					9.0		
	S-95	SB SR 775	49+00	LT	R2-1	12.5					7.5		
	S-96	SB SR 775	46+50	LT	M2-3	13.5					2.19		
					M1-5-3						5.0		
	S-97a	RAMP I	377+00	RT	R3-H8bj						7.5		
					R5-1a				4	1	8.75		
					R5-1a						8.75		
	S-97b	RAMP I	377+00	LT	R3-H8bj						7.5		
					R5-1a				4	1	8.75		
					R5-1a						8.75		
	S-98a	RAMP I	380+54	RT	R1-1						9.0		
					R5-1				1		9.0		
					R6-1L		13.0				3.0		
					R6-1R						3.0		
	S-98b	RAMP I	380+54	LT	R1-1						9.0		
					R5-1				1		9.0		
					R6-1L		13.0				3.0		
					R6-1R						3.0		
	S-99	RAMP L	388+70	RT	W4-1R	14.5/14.5					16.0		
	S-100	RAMP J	394+00	LT	M3-3						2.0		
					M1-5	14.0					4.0		
					M6-2						2.19		
	S-101	RAMP K	385+50	RT	R4-7	13.0					5.0		
	S-102	RAMP K	385+25	LT	R5-1						9.0		
					R6-1L		13.0		1		3.0		
					R6-1R						3.0		
	S-103	RAMP K	388+50	LT	R3-H8bd						6.25		
					R5-1a	14.5/14.5			4		8.75		
					R5-1a						8.75		
	S-104a	RAMP K	390+00	LT	R5-1a	14.5/14.5			4		6.25		
					R5-1a						6.25		
	S-104b	RAMP K	390+00	RT	R5-1a	14.5/14.5			4		6.25		
					R5-1a						6.25		
▼	S-105	SB SR 7	388+00	RT	W4-1R	13.5/13.5					16.0		
					TOTALS - COLUMN "D"	386.1	39	46.5	23	2	293.1	3	1
					TOTALS - COLUMN "A"	705.7	34		25		410.8		
					TOTALS - COLUMN "B"	~~448.9~~		64.5	8		~~202.6~~	5	
					TOTALS - COLUMN "C"	1106.3			20		410.0		
TOTALS TO GENERAL SUMMARY						**2647.0**	**73**	**111.0**	**76**	**2**	**1316.6**	**8**	**1**

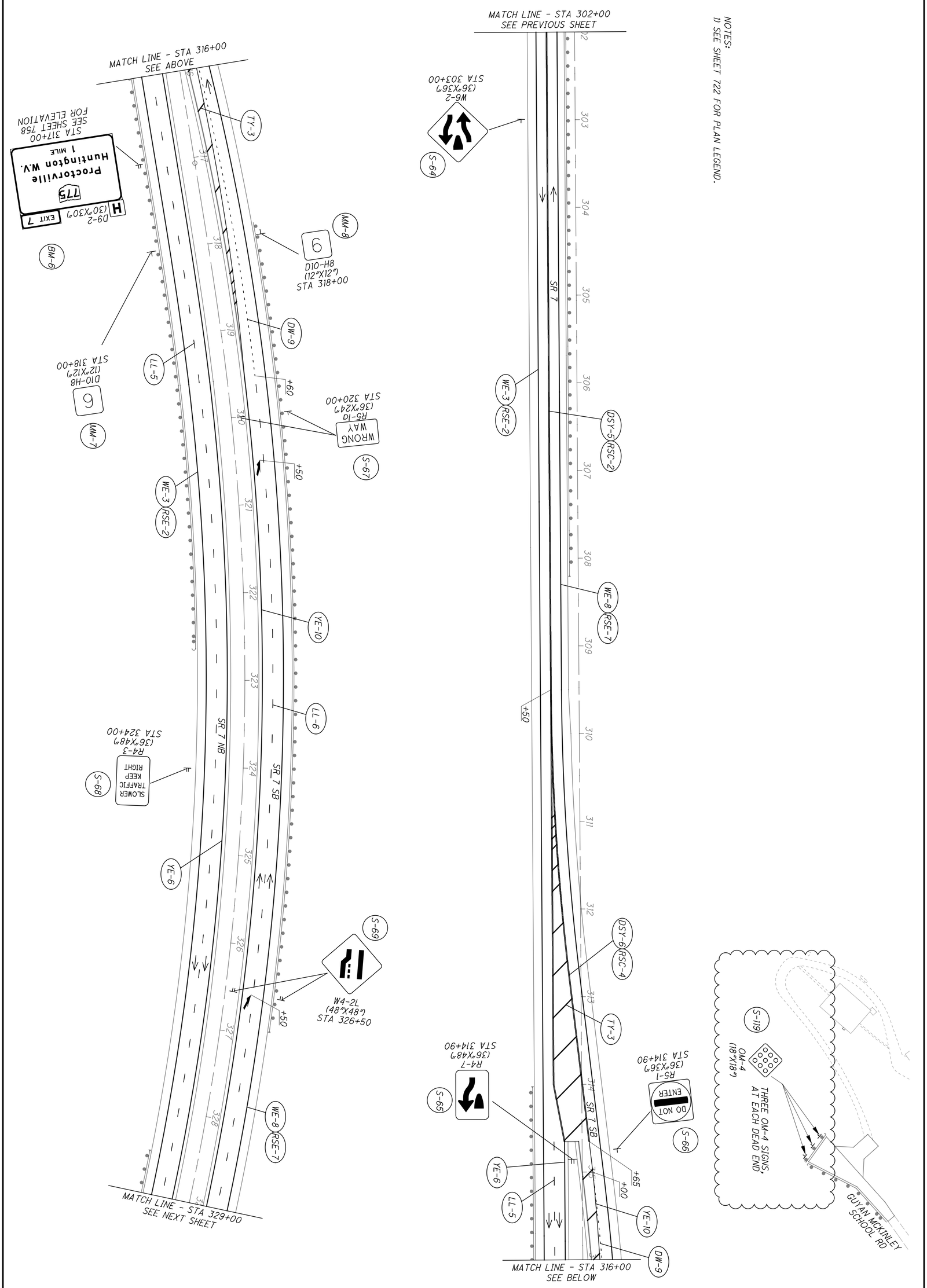
CALCULATED EAE
CHECKED MJH

MINOR SIGNING SUBSUMMARY (CONT.)

LAW-7-2.17

719
1247

NOTES:
1) SEE SHEET 722 FOR PLAN LEGEND.



740 / 1247	LAW-7-2.17	TRAFFIC CONTROL PLAN MAINLINE - STA 302+00 TO STA 329+00	CALCULATED MJH CHECKED KAE	0 50 25 100 HORIZONTAL SCALE IN FEET

SHEET NUMBER												PARTICIPATION	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
										767	769	01/NHS/01						
																	TRAFFIC SIGNALS	
										4		4	625	18100	4	EACH	BRACKET ARM, 12'	
										882		882	625	23306	882	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
										22		22	625	25400	22	FT	CONDUIT, 2", 725.04	
										4		4	625	26253	4	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN: 120V	764
										22		22	625	29000	22	FT	TRENCH	
										10		10	625	32000	10	EACH	GROUND ROD	
										14		14	632	05006	14	EACH	VEHICULAR SIGNAL HEAD, 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
										2		2	632	05086	2	EACH	VEHICULAR SIGNAL HEAD, 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
										16		16	632	25000	16	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
										728		728	632	29900	728	FT	MESSENGER WIRE, 7 STRAND. 1/4" DIAMETER WITH ACCESSORIES	
										728		728	632	30600	728	FT	TETHER WIRE, WITH ACCESSORIES	
										860		860	632	40500	860	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
										458		458	632	40700	458	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
										8		8	632	64000	8	EACH	STRAIN POLE FOUNDATION	
										2		2	632	70000	2	EACH	POWER SERVICE	
										2		2	632	86120	2	EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 8	
										3		3	632	87120	3	EACH	COMBINATION STRAIN POLE, TYPE TC-81.11, DESIGN 8	
										1		1	632	87130	1	EACH	COMBINATION STRAIN POLE, TYPE TC-81.11, DESIGN 10	
										2		2	632	90400	2	EACH	SIGNALIZATION, MISC.: COMBINATION STRAIN POLE, TC-81.11 AND TC-9.31	764
										2		2	633	65511	2	EACH	CABINET, TYPE TS-2, AS PER PLAN	764
										2		2	633	67100	2	EACH	CABINET FOUNDATION	
										2		2	633	67200	2	EACH	CONTROLLER WORK PAD	
										2		2	633	75001	2	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	765
											70	70	644	00500	70	FT	STOP LINE	
										4		4	809	69000	4	EACH	ADVANCE RADAR DETECTION	765
										3		3	809	69100	3	EACH	STOP LINE RADAR DETECTION	765
										2		2	815	30000	2	EACH	SPREAD SPECTRUM RADIO	

CALCULATED EAE
CHECKED MJH

TRAFFIC SIGNAL GENERAL SUMMARY

LAW-7-2.17

766
1247

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TRAFFIC SIGNAL SUBSUMMARY
SR 775 INTERCHANGE

CALCULATED EAE | CHECKED MJH

SHEET NO.	LOCATION	625					632														633				809		815
		CONDUIT, 2", 725.04	CONDUIT, 3", 725.04	TRENCH	UNDERGROUND WARNING/ MARKING TAPE	GROUND ROD	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	COVERING OF VEHICULAR SIGNAL HEADS	MESSENGER WIRE, 7 STRAND 3/8" DIAMETER WITH ACCESSORIES	TETHER WIRE WITH ACCESSORIES	SIGNAL CABLE, 5-CONDUCTOR, #14 AWG	SIGNAL CABLE, 7-CONDUCTOR, #14 AWG	STRAIN POLE FOUNDATION	STRAIN POLE TYPE TC-81.11, DESIGN 8	COMBINATION STRAIN POLE TYPE TC-81.11, DESIGN 8	COMBINATION STRAIN POLE TYPE TC-81.11, DESIGN 10	ITEM 632 SIGNALIZATION, MISC.: COMBINATION STRAIN POLE, TYPE TC-81.11 AND SIGN SUPPORT, TC-9.31			CABINET, TYPE TS2, AS PER PLAN	CABINET FOUNDATION	CONTROLLER WORK PAD, AS PER PLAN	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	ADVANCE RADAR DETECTION	STOP-BAR RADAR DETECTION	SPREAD SPECTRUM RADIO
		FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH			EACH	EACH	EACH	EACH	EACH	EACH	EACH
768	CONTROL CABINET					1															1	1	1	1			1
	CABINET TO POLE "SP2"	11	11	11	11																						
	POLE "SP2"					1	1		1					1				1							1		
	POLE "SP2" TO POLE "SP1"						2	1	3	110	110																
	POLE "SP1"					1								1		1											
	POLE "SP2" TO POLE "SP4"						2		2	109	109																
	POLE "SP4"					1								1		1										1	
	POLE "SP4" TO POLE "SP3"						2		2	95	95																
	POLE "SP3"					1								1	1										1	1	
	CABINET TO 1A												135														
	1A TO 6B											22															
	6B TO 6A											22															
	CABINET TO 4A											82															
	4A TO 4B											22															
	CABINET TO 2B											191															
	2B TO 2A											22															
	CABINET TO 2C											38															
772	CONTROL CABINET					1															1	1	1	1			
	CABINET TO POLE "SP4"	11	11	11	11																						
	POLE "SP4"					1								1			1										1
	POLE "SP4" TO POLE "SP2"									178	178																
	POLE "SP2"					1								1				1								1	
	BULLRING 1 TO POLE "SP1"						3		3	70	70																
	POLE "SP1"					1								1		1											
	BULLRING 2 TO POLE "SP3"						1	1	2	70	70																
	POLE "SP3"					1	1		1					1	1										1		
	POLE "SP1" TO POLE "SP3"						2		2	96	96																
	CABINET TO 2B												105														
	2B-2A											22															
	CABINET TO 6D											184															
	CABINET TO 3B											189															
	3B-3A											22															
	CABINET TO 6C												218														
	6C-6B											22															
	6B-6A											22															
TO GENERAL SUMMARY		22	22	22	22	10	14	2	16	728	728	860	458	8	2	3	1	2			2	2	2	2	4	3	2

SHEET NO.	LOCATION	625					632																				
		BRACKET ARM, 12'	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN "B"			POWER SERVICE	POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	SERVICE CABLE, 3 CONDUCTOR, NO. 8 AWG																	
		EACH	FT	EACH			EACH	FT	FT																		
768	CONTROL CABINET						1	33	35																		
772	CONTROL CABINET						1	33	35																		
768	CABINET TO LT-1	1	786	1																							
768	CABINET TO LT-2	1	129	1																							
772	CABINET TO LT-1	1	753	1																							
772	CABINET TO LT-2	1	129	1																							
TO GENERAL SUMMARY		4	882	4			2	66	70																		

LAW-7-2.17

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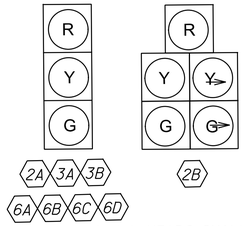
FIELD WIRING HOOKUP CHART

SIGNAL HEAD #	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD #	INDICATION	FIELD TERMINAL	FLASH
2A (NB)	R	ϕ2 R	Y	6A,6B, 6C,6D (SB)	R	ϕ6 R	Y
	Y	ϕ2 Y			Y	ϕ6 Y	
	G	ϕ2 G			G	ϕ6 G	
2B (NB)	R	ϕ5 R	Y	3A,3B (WB)	R	ϕ3 R	R
	Y	ϕ5 Y			Y	ϕ3 Y	
	G	ϕ5 G			G	ϕ3 G	
	~~Y~~	ϕ3 Y					
	~~G~~	ϕ3 G					

SIGNAL INDICATIONS

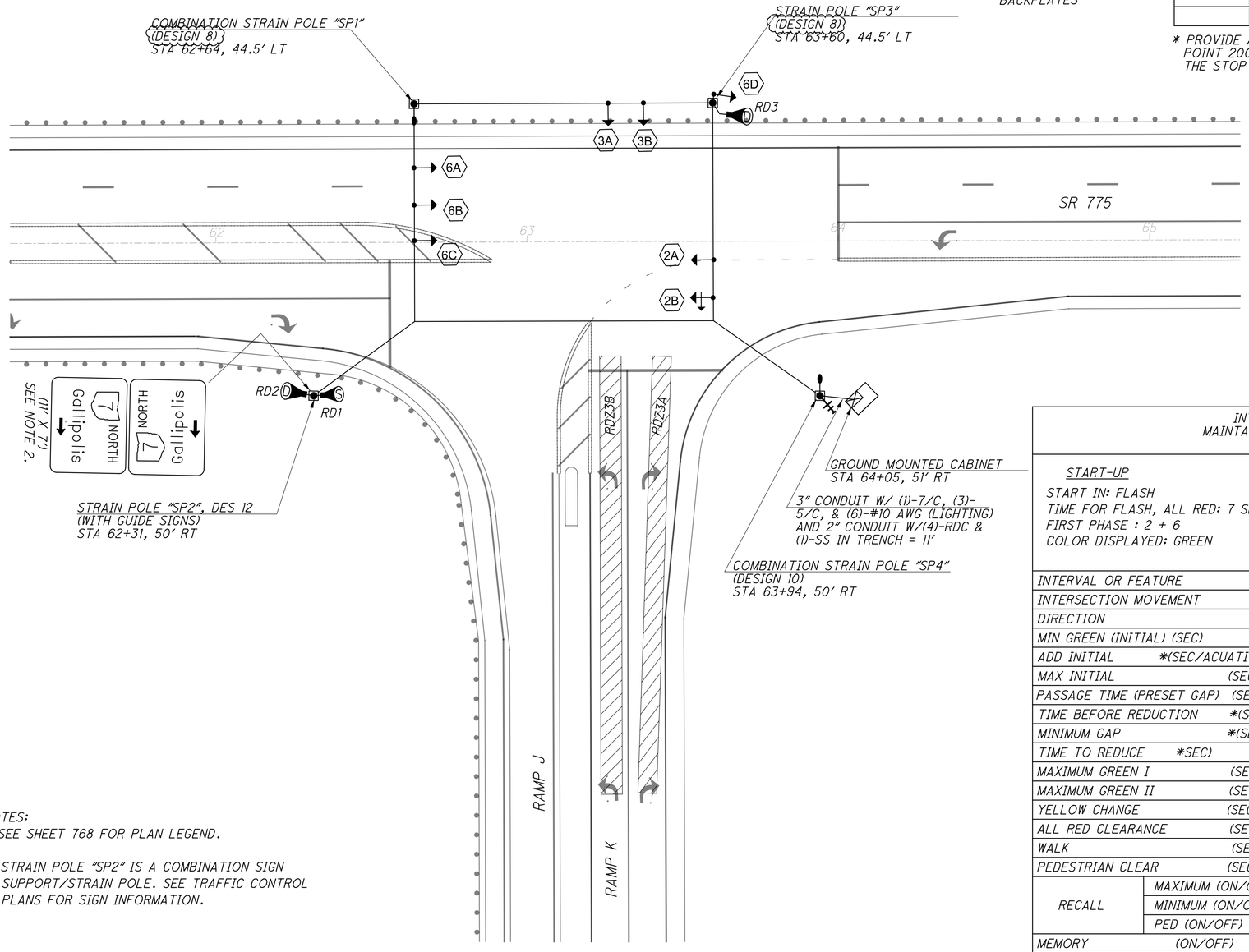


ALL SIGNAL HEADS SHALL BE 12" LENS, LED, BLACK, CUTAWAY VISORS, WITH BACKPLATES

RADAR DETECTION CHART

RADAR DETECTION NO.	MOVEMENT	ASSOCIATED PHASE	DELAY PROGRAMMED IN CONTROLLER (SEC)	EXTENSION PROGRAMMED IN CONTROLLER (SEC)	DETECTOR NUMBER	PURPOSE	DETECTION ZONE LENGTH (FT)
RDZ3A	WB RT	3	10 SEC	-	RD1	CALL PHASE 3	140'
RDZ3B	WB LT	3	-	-	RD1	CALL PHASE 3	140'
Z-3*	EB TH	-	-	-	RD2	EXTEND PHASE 2	200'
Z-4*	WB TH	-	-	-	RD3	EXTEND PHASE 6	200'

* PROVIDE A DILEMMA ZONE COVERING THRU LANES FROM A POINT 200' FROM THE STOP LINE TO A POINT 400' FROM THE STOP LINE.



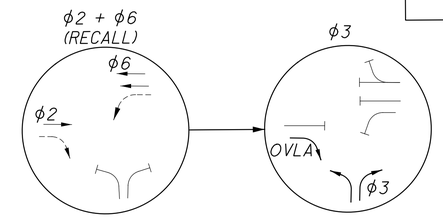
NOTES:
1) SEE SHEET 768 FOR PLAN LEGEND.

2) STRAIN POLE "SP2" IS A COMBINATION SIGN SUPPORT/STRAIN POLE. SEE TRAFFIC CONTROL PLANS FOR SIGN INFORMATION.

LEGEND

VEHICLE
PERMITTED ϕ
PROTECTED ϕ

PHASE DIAGRAM



INTERSECTION: SR 775 AT SR 7 NORTH RAMPS
MAINTAING AGENCY: ODOT

START-UP
START IN: FLASH
TIME FOR FLASH, ALL RED: 7 SEC
FIRST PHASE : 2 + 6
COLOR DISPLAYED: GREEN

DUAL ENTRY: | PHASES:
REST IN RED: PHASE 3
OVERLAP | A | B | C | D
PHASES | 3 | - | - | -

INTERVAL OR FEATURE	CONTROLLER MOVEMENT NO							
INTERSECTION MOVEMENT	1	2	3	4	5	6	7	8
DIRECTION	-	NB	WB	-	-	SB	-	-
MIN GREEN (INITIAL) (SEC)	-	20	10	-	-	20	-	-
ADD INITIAL *(SEC/ACUATION)	-	-	-	-	-	-	-	-
MAX INITIAL (SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP) (SEC.)	-	1.0	0.5	-	-	1.0	-	-
TIME BEFORE REDUCTION *(SEC)	-	-	-	-	-	-	-	-
MINIMUM GAP *(SEC)	-	-	-	-	-	-	-	-
TIME TO REDUCE *SEC)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I (SEC)	-	60.0	30.0	-	-	60.0	-	-
MAXIMUM GREEN II (SEC)	-	60.0	30.0	-	-	60.0	-	-
YELLOW CHANGE (SEC)	-	5.5	4.0	-	-	5.5	-	-
ALL RED CLEARANCE (SEC)	-	1.0	1.0	-	-	1.0	-	-
WALK (SEC)	-	-	-	-	-	-	-	-
PEDESTRIAN CLEAR (SEC)	-	-	-	-	-	-	-	-
RECALL MAXIMUM (ON/OFF)	-	OFF	OFF	-	-	OFF	-	-
RECALL MINIMUM (ON/OFF)	-	ON	OFF	-	-	ON	-	-
RECALL PED (ON/OFF)	-	OFF	OFF	-	-	OFF	-	-
MEMORY (ON/OFF)	-	ON	OFF	-	-	ON	-	-

* VOLUME DENSITY CONTROLS

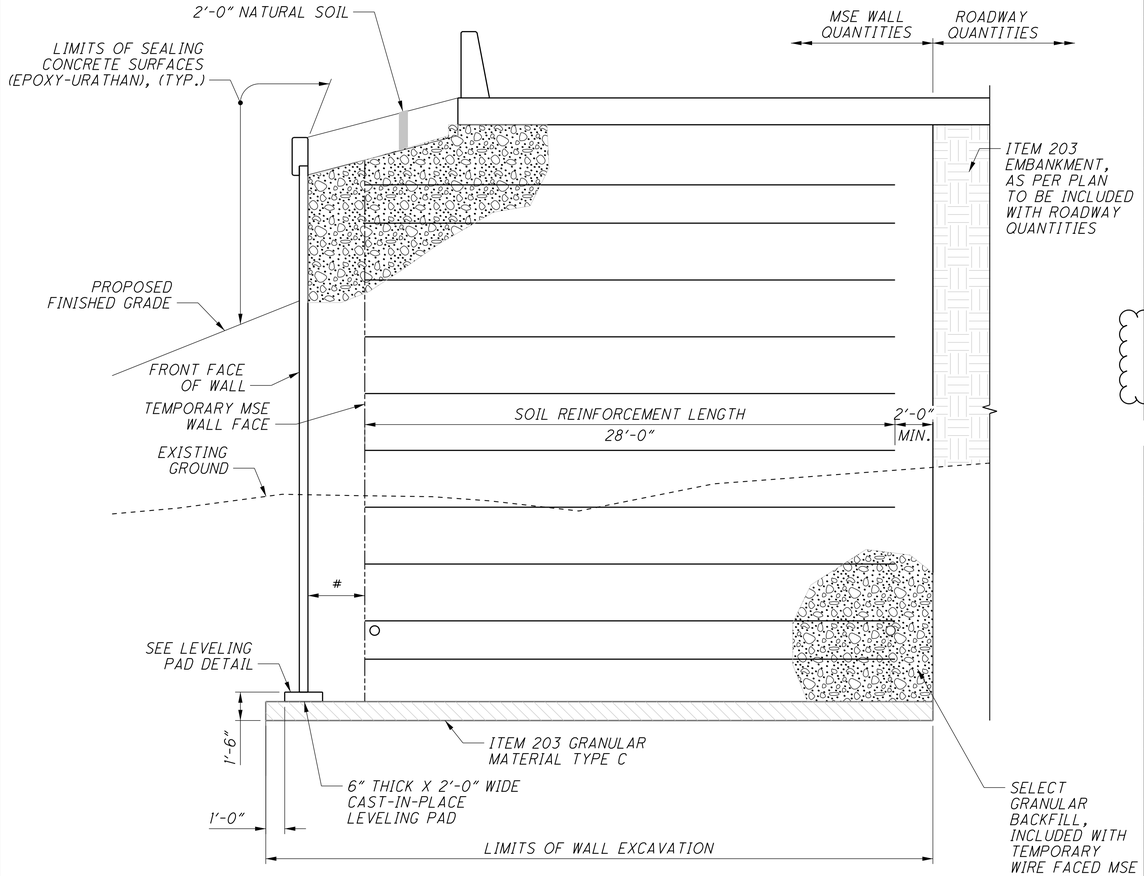
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MJH
CHECKED KAE

TRAFFIC SIGNAL PLAN
SR 775 AT NORTH RAMPS

LAW-7-2.17

772
1247

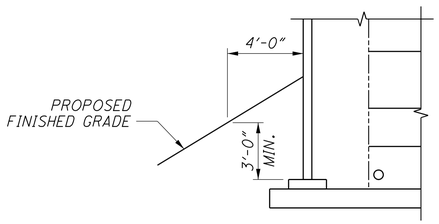


SELECT GRANULAR BACKFILL TO BE INCLUDED WITH ITEM 840 - SELECT GRANULAR BACKFILL.

SECTION B-B

NOTE:

MINIMUM 5½" FACING PANEL THICKNESS, CENTERED ON LEVELING PAD.



LEVEING PAD DETAIL

	SHORT TERM (UNDRAINED)		LONG TERM (DRAINED)	
MATERIAL TYPE	FRICTION ANGLE (DEGREES)	COHESION (PSF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
REINFORCED FILL	34	0	34	0
RETAINED SOIL	30	0	30	0
FOUNDATION SOIL	0	2400 / 4000*	23 / 24*	150

* - REAR / FORWARD

ESTIMATED QUANTITIES - WALL 1

CALCULATED BY: BSM 03/11/24
CHECKED BY: MRS 03/21/24

02/NHS/08	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
100	203	20001	100	CY	EMBANKMENT, AS PER PLAN
828	203	35110	828	CY	GRANULAR MATERIAL, TYPE B
457	512	10050	457	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
55	601	37501	55	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN
6,146	840	20000	6,146	SF	MECHANICALLY STABILIZED EARTH WALL
262	840	21000	262	CY	WALL EXCAVATION
561	840	22000	561	SY	FOUNDATION PREPARATION
5,230	840	23000	5,230	CY	SELECT GRANULAR BACKFILL
76	840	23050	76	CY	NATURAL SOIL
275	840	25010	275	FT	6" DRAINAGE PIPE, PERFORATED
80	840	25020	80	FT	6" DRAINAGE PIPE, NON-PERFORATED
219	840	26000	219	FT	CONCRETE COPING
1.25	840	27000	1.25	DAY	ON-SITE ASSISTANCE
LUMP	867	00101	LUMP	LS	TEMPORARY WIRED FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN

ESTIMATED QUANTITIES - WALL 2

CALCULATED BY: BSM 03/11/24
CHECKED BY: MRS 03/21/24

02/NHS/08	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
100	203	20001	100	CY	EMBANKMENT, AS PER PLAN
563	203	35110	563	CY	GRANULAR MATERIAL, TYPE B
355	512	10050	355	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
55	601	37501	55	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN
4,775	840	20000	4,775	SF	MECHANICALLY STABILIZED EARTH WALL
7	840	21000	7	CY	WALL EXCAVATION
447	840	22000	447	SY	FOUNDATION PREPARATION
3,991	840	23000	3,991	CY	SELECT GRANULAR BACKFILL
56	840	23050	56	CY	NATURAL SOIL
245	840	25010	245	FT	6" DRAINAGE PIPE, PERFORATED
35	840	25020	35	FT	6" DRAINAGE PIPE, NON-PERFORATED
181	840	26000	181	FT	CONCRETE COPING
1.25	840	27000	1.25	DAY	ON-SITE ASSISTANCE
LUMP	867	00101	LUMP	LS	TEMPORARY WIRED FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN

ITEM 867 - TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN

THIS PLAN NOTE IS FOR THE CONSTRUCTION OF A TWO-STAGE MSE WALL. THIS PAY ITEM INCLUDES ONLY THE WIRE FACING UNITS, SOIL RETENTION FABIRC, AND SPECIAL CONNECTION DEVICES BETWEEN THE WIRE FACING UNITS AND THE PERMANENT PRECAST CONCRETE FACING OF THE SECOND STAGE OF THE WALL. GALVANIZE THE FURNISED WIRE FACING UNITS AND CONNECTION DEVICES ACCORDING TO SS867.03.A. THE WALL IS TO BE OTHERWISE CONSTRUCTED IN ACCORDANCE WITH SS840, AND ALL OTHER ITEMS FOR THE MSE WALL WILL BE MEASURED AND PAID FOR UNDER SS840 PAY ITEMS.

CONSTRUCT THE FIRST STAGE OF THE WALL WITH WIRE FACING UNITS AND THE EMBANKMENT BEHIND THE WALL FOR A MINIMUM DISTANCE OF 200-FT BEHIND THE WALL. DO NOT BEGIN THE CONSTRUCTION OF THE SECOND STAGE OF HTE WALL WITH PERMANENT PRECAST CONCRETE FACING UNTIL AFTER THE ABOVE REQUIRED WIRE FACED MSE WALL AND EMBANKMENT HAVE BEEN CONSTRUCTED AND A 30 CALENDAR DAY WAITING PERIOD HAS ELAPSED. THE ENGINEER MAY ADJUST THE LENGTH OF THE WAITING PERIOD BASED ON SETTLEMENT PLATFORM READINGS. THE SPACE BETWEEN THE WIRE FACED WALL AND THE PRECAST CONCRETE FACING IS TO BE FILLED WITH ITEM 840 SELECT GRANULAR BACKFILL IN ACCORDANCE WITH SS840.

NOTE:
ALL METAL COMPONENTS OF THE WIRE-FACED MSE WALL SHALL BE GALVANIZED ACCORDING TO SS867.03.A

DESIGN AGENCY
Stantec Consulting Services Inc.
1500 Lake Shore Drive, Suite 100
Columbus, Ohio 43204
(614) 486-4383

DESIGNED	DRAWN	REVIEWED	DATE
BSM	JWS	MRS	03/2024
CHECKED	REVISED	STRUCTURE FILE NUMBER	
EDA		4400194	

WALL SECTION AND ESTIMATED QUANTITIES
BRIDGE NO. LAW-7-0370
S.R. 7 OVER C.R. 104 (BOOTHE EATON ROAD)

LAW-7-2.17
PID No. 75923

28 / 28

844
1247

ESTIMATED QUANTITIES

CALCULATED BY: BSM 03/08/24
CHECKED BY: MRS 03/14/24

02/NHS/08	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT	SUPER.	GEN.	SEE SHEET
4	SPEC	20365000	4	EACH	SETTLEMENT PLATFORM			4	3/28
LUMP	503	11100	LUMP	LS	COFFERDAMS AND EXCAVATION BRACING			LUMP	
LUMP	505	11100	LUMP	LS	PILE DRIVING EQUIPMENT MOBILIZATION			LUMP	
2275	507	00100	2275	FT	STEEL PILES HP10X42, FURNISHED	2275			
2145	507	00150	2145	FT	STEEL PILES HP10X42, DRIVEN	2145			
59666	509	10000	59666	POUND	EPOXY COATED STEEL REINFORCEMENT	10808	48858		
5475.25	509	30020	5475.25	FT	NO. 4 DEFORMED GFRP REINFORCEMENT		5475.25		
2	511	33500	2	EA	SEMI-INTEGRAL DIAPHRAGM GUIDE	2			
176	511	34446	176	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		176		
24	511	34450	24	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)		24		
148	511	43512	148	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	148			
544	512	10100	544	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	198	346		
5	515	15020	5	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE 4, 76'-8"		5		
4	515	20000	4	EACH	INTERMEDIATE DIAPHRAGMS		4		
93	516	10010	93	FT	ARMORLESS PREFORMED JOINT SEAL	93			
254	516	13900	254	SF	2" PREFORMED EXPANSION JOINT FILLER	254			
118	516	14020	118	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	118			
10	516	44100	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2.063"x12"x25")	10			
76	518	21200	76	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	76			
129	518	40000	129	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	129			
14	518	40010	14	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	14			
304	526	30011	304	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN			304	18&19/26
93	526	90030	93	FT	TYPE C INSTALLATION			93	
4	611	99114	4	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D			4	
4	622	25000	4	EACH	CONCRETE BARRIER END SECTION, TYPE D			4	
4	622	90200	4	EACH	BARRIER, MISC.: SINGLE SLOPE CONCRETE BRIDGE RAILING WITH MOMENT SLAB			4	

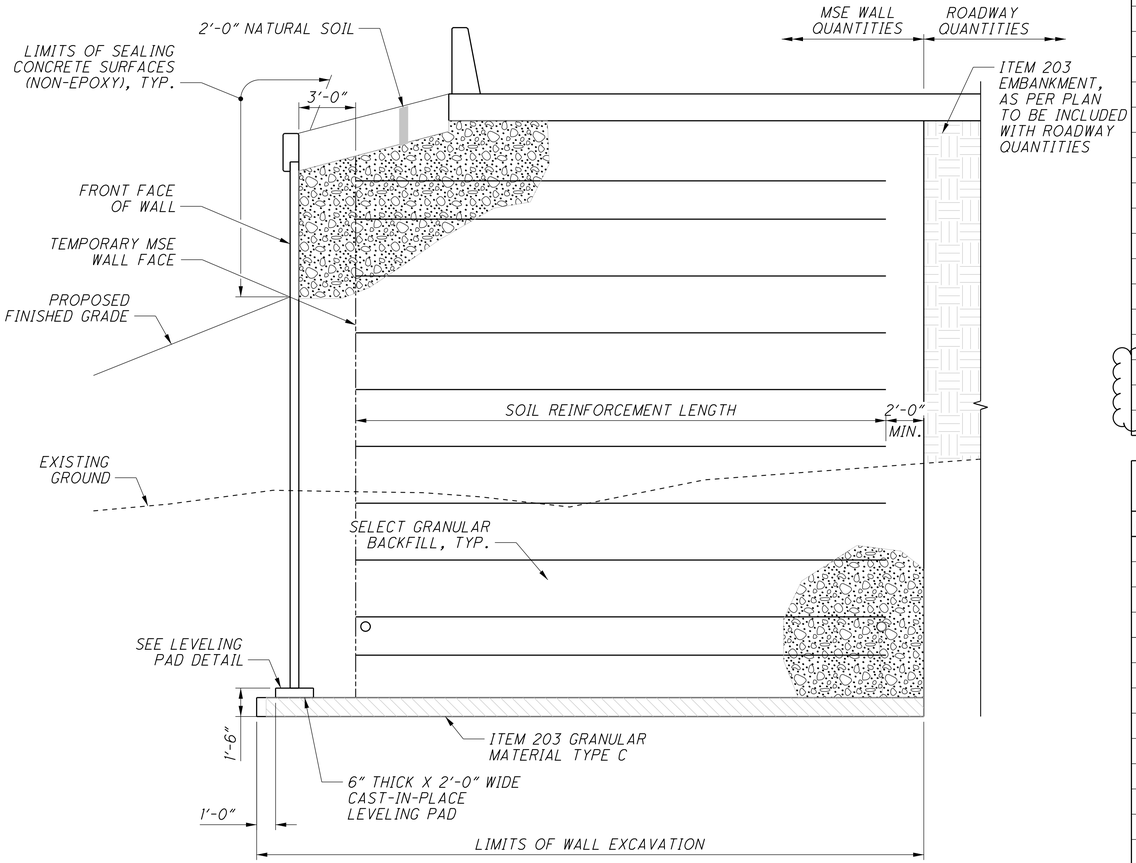
NOTE:
FOR MSE WALL QUANTITES, SEE SHEET 28/28.

DESIGN AGENCY
Stantec Consulting Services Inc.
1500 Lake Shore Drive, Suite 100
Columbus, Ohio 43204
(614) 486-4383

DESIGNED	DRAWN	REVIEWED	DATE
BSM	JWS	EDA	03/2024
CHECKED	REVISED	STRUCTURE FILE NUMBER	
MRS		4400259	

ESTIMATED QUANTITIES
BRIDGE NO. LAW-7-0387
S.R. 7 OVER C.R. 32 (EATON ROAD)

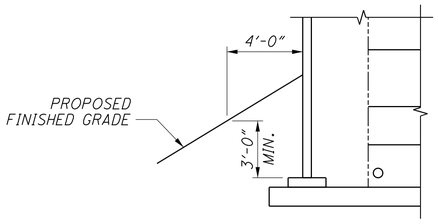
LAW-7-2.17
PID No. 75923



SECTION B-B

NOTE:

MINIMUM 5½" FACING PANEL THICKNESS, CENTERED ON LEVELING PAD.



LEVEING PAD DETAIL

MATERIAL TYPE	SHORT TERM (UNDRAINED)		LONG TERM (DRAINED)	
	FRICTION ANGLE (DEGREES)	COHESION (PSF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
REINFORCED FILL	34	0	34	0
RETAINED SOIL	30	0	30	0
FOUNDATION SOIL	0	2400	23	150

ESTIMATED QUANTITIES - WALL 1

CALCULATED BY: BSM 03/11/24
CHECKED BY: MRS 03/21/24

02/NHS/08	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
100	203	20001	100	CY	EMBANKMENT, AS PER PLAN
361	203	35110	361	CY	GRANULAR MATERIAL, TYPE B
LUMP	503	11100	LUMP	LS	COFFERDAMS AND EXCAVATION BRACING
211	512	10050	211	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
63	601	37501	63	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN
3,272	840	20000	3,272	SF	MECHANICALLY STABILIZED EARTH WALL
68	840	21000	68	CY	WALL EXCAVATION
357	840	22000	357	SY	FOUNDATION PREPARATION
2,384	840	23000	2,384	CY	SELECT GRANULAR BACKFILL
44	840	23050	44	CY	NATURAL SOIL
204	840	25010	204	FT	6" DRAINAGE PIPE, PERFORATED
100	840	25020	100	FT	6" DRAINAGE PIPE, NON-PERFORATED
170	840	26000	170	FT	CONCRETE COPING
~~1.25~~	~~840~~	~~27000~~	~~1.25~~	~~DAY~~	~~ON-SITE ASSISTANCE~~
LUMP	867	00101	LUMP	LS	TEMPORARY WIRED FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN

ESTIMATED QUANTITIES - WALL 2

CALCULATED BY: BSM 03/11/24
CHECKED BY: MRS 03/21/24

02/NHS/08	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
100	203	20001	100	CY	EMBANKMENT, AS PER PLAN
561	203	35110	561	CY	GRANULAR MATERIAL, TYPE B
LUMP	503	11100	LUMP	LS	COFFERDAMS AND EXCAVATION BRACING
263	512	10050	263	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
63	601	37501	63	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN
3,530	840	20000	3,530	SF	MECHANICALLY STABILIZED EARTH WALL
1,442	840	21000	1,442	CY	WALL EXCAVATION
405	840	22000	405	SY	FOUNDATION PREPARATION
2,737	840	23000	2,737	CY	SELECT GRANULAR BACKFILL
49	840	23050	49	CY	NATURAL SOIL
208	840	25010	208	FT	6" DRAINAGE PIPE, PERFORATED
110	840	25020	110	FT	6" DRAINAGE PIPE, NON-PERFORATED
170	840	26000	170	FT	CONCRETE COPING
~~1.25~~	~~840~~	~~27000~~	~~1.25~~	~~DAY~~	~~ON-SITE ASSISTANCE~~
LUMP	867	00101	LUMP	LS	TEMPORARY WIRED FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN

ITEM 867 - TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN

THIS PLAN NOTE IS FOR THE CONSTRUCTION OF A TWO-STAGE MSE WALL. THIS PAY ITEM INCLUDES ONLY THE WIRE FACING UNITS, SOIL RETENTION FABIRC, AND SPECIAL CONNECTION DEVICES BETWEEN THE WIRE FACING UNITS AND THE PERMANENT PRECAST CONCRETE FACING OF THE SECOND STAGE OF THE WALL. GALVANIZE THE FURNISED WIRE FACING UNITS AND CONNECTION DEVICES ACCORDING TO SS867.03.A. THE WALL IS TO BE OTHERWISE CONSTRUCTED IN ACCORDANCE WITH SS840, AND ALL OTHER ITEMS FOR THE MSE WALL WILL BE MEASURED AND PAID FOR UNDER SS840 PAY ITEMS.

CONSTRUCT THE FIRST STAGE OF THE WALL WITH WIRE FACING UNITS AND THE EMBANKMENT BEHIND THE WALL FOR A MINIMUM DISTANCE OF 200-FT BEHIND THE WALL. DO NOT BEGIN THE CONSTRUCTION OF THE SECOND STAGE OF HTE WALL WITH PERMANENT PRECAST CONCRETE FACING UNTIL AFTER THE ABOVE REQUIRED WIRE FACED MSE WALL AND EMBANKMENT HAVE BEEN CONSTRUCTED AND A 130 CALENDAR DAY WAITING PERIOD HAS ELAPSED. THE ENGINEER MAY ADJUST THE LENGTH OF THE WAITING PERIOD BASED ON SETTLEMENT PLATFORM READINGS. THE SPACE BETWEEN THE WIRE FACED WALL AND THE PRECAST CONCRETE FACING IS TO BE FILLED WITH ITEM 840 SELECT GRANULAR BACKFILL IN ACCORDANCE WITH SS840.

NOTE:
ALL METAL COMPONENTS OF THE WIRE-FACED MSE WALL SHALL BE GALVANIZED ACCORDING TO SS867.03.A.

DESIGN AGENCY
Stantec Consulting Services Inc.
1500 Lake Shore Drive, Suite 100
Columbus, Ohio 43204
(614) 486-4383

DESIGNED BSM | DRAWN JWS | REVIEWED EDA | DATE 03/2024 | STRUCTURE FILE NUMBER 4400259
CHECKED MRS | REVISED

WALL SECTION AND ESTIMATED QUANTITIES

BRIDGE NO. LAW-7-0387
S.R. 7 OVER C.R. 32 (EATON ROAD)

LAW-7-2.17
PID No. 75923

28 / 28

897
1247

LEFT OF MAINLINE					
STATION	OFFSET	LOCATION	POST TYPE	ITEM 607 - FENCE, TYPE 47 (FEET)	ITEM 607 - FENCE, TYPE CLT (FEET)
122+23.33	218.71 LT.	S.R. 7	C.P.A.		
122+27.34	201.71 LT.	S.R. 7	HEADWALL	17.52	
122+32.53	197.34 LT.	S.R. 7	HEADWALL		
123+00.43	153.86 LT.	S.R. 7	I.A.P.A.	83.19	
127+99.94	136.15 LT.	S.R. 7	CROSSING TYPE 1		
127+80.35	363.57 LT.	S.R. 7	I.A.P.A.	569.55	
131+90.12	92.98 LT.	S.R. 7	I.A.P.A.	352.99	
133+30.85	126.62 LT.	S.R. 7	C.P.A.	148.49	
132+65.27	12.33 RT.	S.R. 7	ABUTMENT	154.05	
135+37.57	12.33 RT.	S.R. 7	ABUTMENT		
136+30.21	217.97 LT.	S.R. 7	C.P.A.	249.13	
138+61.39	200.64 LT.	S.R. 7	C.P.A.	244.04	
141+09.87	198.00 LT.	S.R. 7	I.A.P.A.	261.02	
146+05.27	150.43 LT.	S.R. 7	L.P.A.	519.13	
151+04.24	168.42 LT.	S.R. 7	C.P.A.	519.13	
151+04.24	168.42 LT.	S.R. 7	C.P.A.		
154+35.04	139.00 LT.	S.R. 7	I.A.P.A.		344.85
158+00.14	191.59 LT.	S.R. 7	CROSSING TYPE 3		
158+50.13	199.01 LT.	S.R. 7	I.A.P.A.		423.92
158+93.59	203.98 LT.	S.R. 7	E.P.A. - GATE		43.74
159+21.41	207.15 LT.	S.R. 7	E.P.A. - GATE		
161+99.00	238.88 LT.	S.R. 7	C.P.A.		279.40
161+99.00	168.89 LT.	S.R. 7	C.P.A.		69.99
163+70.22	187.07 LT.	S.R. 7	C.P.A.		172.18
164+04.59	193.82 LT.	S.R. 7	C.P.A.		35.03
164+09.10	188.84 LT.	S.R. 7	CROSSING TYPE 3		
164+18.01	178.99 LT.	S.R. 7	C.P.A.		20.00
164+64.95	205.66 LT.	S.R. 7	C.P.A.		53.98
166+99.68	119.05 LT.	S.R. 7	L.P.A.		250.20
167+80.35	94.63 LT.	S.R. 7	L.P.A.		84.28
168+58.93	75.32 LT.	S.R. 7	C.P.A.		80.93
169+11.00	68.91 LT.	S.R. 7	C.P.A.		52.46
169+11.00	149.16 LT.	S.R. 7	C.P.A.		80.25
171+05.17	143.99 LT.	S.R. 7	C.P.A.		194.24
173+00.83	251.93 LT.	S.R. 7	C.P.A.		223.46
174+35.90	679.52 LT.	S.R. 7	C.P.A.		448.41
175+00.54	759.08 LT.	S.R. 7	C.P.A.		102.51
176+37.12 [L]	781.43 LT.	S.R. 7	C.P.A.		128.93
178+98.25	690.45 LT.	S.R. 7	C.P.A.		218.45
181+34.03	369.44 LT.	S.R. 7	C.P.A.		371.84
183+15.66	161.10 LT.	S.R. 7	C.P.A.		264.60
184+56.65	204.18 LT.	S.R. 7	CROSSING TYPE 3		
188+44.793 [L]	287.14 LT.	S.R. 7	C.P.A.		508.87
189+99.60	254.83 LT.	S.R. 7	C.P.A.		157.71
191+82.20	128.74 LT.	S.R. 7	C.P.A.		221.91
192+78.66	210.59 LT.	S.R. 7	CROSSING TYPE 3		
193+00.37	229.00 LT.	S.R. 7	C.P.A.		154.97
194+57.60	230.40 LT.	S.R. 7	C.P.A.		157.24
195+32.88	163.97 LT.	S.R. 7	C.P.A.		100.40
195+32.15	151.99 LT.	S.R. 7	CROSSING TYPE 1		
195+31.35	139.02 LT.	S.R. 7	C.P.A.		25.00
195+86.89	116.31 LT.	S.R. 7	C.P.A.		60.00
195+85.77	36.32 LT.	S.R. 7	C.P.A.		80.00
195+60.95	1.42 LT.	S.R. 7	MSE WALL		45.17
196+28.22 [L]	1.42 LT.	S.R. 7	MSE WALL		
196+70.99 [L]	69.81 LT.	S.R. 7	I.A.P.A.		83.12
197+77.93 [L]	298.18 LT.	S.R. 7	L.P.A.		253.50
197+98.48 [L]	353.25 LT.	S.R. 7	C.P.A.		59.33
198+55.38	294.82 LT.	S.R. 7	C.P.A.		85.24
199+40.00	254.97 LT.	S.R. 7	E.P.A.		100.00
200+53.00	226.75 LT.	S.R. 7	C.P.A.		
201+49.92	219.00 LT.	S.R. 7	I.A.P.A.		103.80
202+30.32	210.41 LT.	S.R. 7	CROSSING TYPE 3		
202+78.13	206.32 LT.	S.R. 7	C.P.A.		137.12

LEFT OF MAINLINE					
STATION	OFFSET	LOCATION	POST TYPE	ITEM 607 - FENCE, TYPE 47 (FEET)	ITEM 607 - FENCE, TYPE CLT (FEET)
203+70.75	275.35 LT.	S.R. 7	C.P.A.		121.04
204+60.59	91.50 LT.	S.R. 7	C.P.A.		206.86
204+81.41	1.30 LT.	S.R. 7	MSE WALL		95.17
205+39.80	1.28 LT.	S.R. 7	MSE WALL		
205+32.69	81.59 LT.	S.R. 7	C.P.A.		83.18
205+05.43	115.37 LT.	S.R. 7	C.P.A.		43.93
205+13.75	122.50 LT.	S.R. 7	CROSSING TYPE 1		
205+21.75	129.41 LT.	S.R. 7	C.P.A.		22.00
205+17.39	148.89 LT.	S.R. 7	C.P.A.		20.00
206+80.10	198.98 LT.	S.R. 7	C.P.A.		178.50
211+30.17	179.40 LT.	S.R. 7	C.P.A.		476.10
212+90.06 [L]	239.63 LT.	S.R. 7	C.P.A.		179.04
214+94.19	492.82 LT.	S.R. 7	E.P.A.		327.22
214+94.19	492.82 LT.	S.R. 7	E.P.A.		
218+40.94	733.22 LT.	S.R. 7	I.A.P.A.	421.94	
220+59.34	817.60 LT.	S.R. 7	C.P.A.	234.14	
223+43.83	457.45 LT.	S.R. 7	L.P.A.	458.96	
226+28.32	97.30 LT.	S.R. 7	C.P.A.	458.96	
229+41.69 [S]	281.96 LT.	S.R. 7	C.P.A.	344.22	
229+48.30 [S]	279.13 LT.	S.R. 7	CROSSING TYPE 2		
231+89.26	147.95 LT.	S.R. 7	C.P.A.	244.79	
233+50.21	147.93 LT.	S.R. 7	C.P.A.	141.10	
237+18.68 [L]	516.31 LT.	S.R. 7	C.P.A.	489.41	
238+48.66	147.79 LT.	S.R. 7	C.P.A.	390.61	
241+00.64	183.79 LT.	S.R. 7	CROSSING TYPE 3		
241+27.11	187.57 LT.	S.R. 7	CROSSING TYPE 3		
242+19.34	200.74 LT.	S.R. 7	CROSSING TYPE 3		
242+69.93	207.97 LT.	S.R. 7	I.A.P.A.	425.55	
244+51.85	169.90 LT.	S.R. 7	CROSSING TYPE 3		
246+99.76	118.01 LT.	S.R. 7	I.A.P.A.	439.14	
251+14.26 [L]	103.82 LT.	S.R. 7	E.P.A.	415.49	
253+03.50 [L]	102.28 LT.	S.R. 7	E.P.A.		
255+00.02	117.99 LT.	S.R. 7	I.A.P.A.	208.90	
257+49.92	108.00 LT.	S.R. 7	I.A.P.A.	265.88	
259+00.00	90.00 LT.	S.R. 7	L.P.A.	159.48	
261+00.00	90.00 LT.	S.R. 7	I.A.P.A.	209.77	
263+00.00	70.00 LT.	S.R. 7	L.P.A.	208.64	
265+00.00	70.00 LT.	S.R. 7	I.A.P.A.	207.83	
267+00.00	75.00 LT.	S.R. 7	I.A.P.A.	208.17	
270+00.30 [L]	84.95 LT.	S.R. 7	I.A.P.A.	311.81	
271+78.71 [L]	83.36 LT.	S.R. 7	C.P.A.	180.58	
271+78.71 [L]	117.85 LT.	S.R. 7	C.P.A.	34.48	
276+21.34	124.90 LT.	S.R. 7	L.P.A.	442.69	
280+69.99	125.61 LT.	S.R. 7	L.P.A.	442.68	
286+63.54	115.07 LT.	S.R. 7	L.P.A.	586.80	
292+50.03	95.94 LT.	S.R. 7	I.A.P.A.	586.80	
296+80.39	123.02 LT.	S.R. 7	I.A.P.A.	431.21	
297+73.67	153.72 LT.	S.R. 7	C.P.A.	98.21	
297+92.03	139.81 LT.	S.R. 7	CROSSING TYPE 1		
298+14.38	122.86 LT.	S.R. 7	C.P.A.	51.08	
297+90.54	12.33 RT.	S.R. 7	ABUTMENT	137.28	
297+73.67	153.72 LT.	S.R. 7	C.P.A.		
298+02.00	191.08 LT.	S.R. 7	E.P.A.	46.89	
300+55.11	12.33 RT.	S.R. 7	ABUTMENT		
300+88.58	177.50 LT.	S.R. 7	C.P.A.	192.76	
304+99.80	158.01 LT.	S.R. 7	I.A.P.A.	411.68	
307+00.21	127.95 LT.	S.R. 7	I.A.P.A.	202.65	
310+80.92	268.21 LT.	S.R. 7	I.A.P.A.	405.73	
313+89.80	477.45 LT.	S.R. 7	C.P.A.	373.09	
314+58.44	413.72 LT.	S.R. 7	I.A.P.A.	93.67	
314+95.66	353.94 LT.	S.R. 7	C.P.A.	70.42	
314+37.34	317.63 LT.	S.R. 7	C.P.A.	68.70	
314+61.68	278.53 LT.	S.R. 7	E.P.A.	46.05	
314+90.04	258.03 LT.	S.R. 7	E.P.A.		

LEFT OF MAINLINE					
STATION	OFFSET	LOCATION	POST TYPE	ITEM 607 - FENCE, TYPE 47 (FEET)	ITEM 607 - FENCE, TYPE CLT (FEET)
314+94.10	255.10 LT.	S.R. 7	C.P.A.	5.00	
315+39.57	283.42 LT.	S.R. 7	C.P.A.	53.57	
316+24.06	147.72 LT.	S.R. 7	C.P.A.	159.85	
317+41.31 [L]	175.68 LT.	S.R. 7	CROSSING TYPE 3		
318+05.94 [L]	191.57 LT.	S.R. 7	CROSSING TYPE 3		
319+57.14	233.32 LT.	S.R. 7	L.P.A.	352.84	
319+83.09	241.47 LT.	S.R. 7	CROSSING TYPE 3		
320+87.66	277.36 LT.	S.R. 7	CROSSING TYPE 3		
322+18.19	329.39 LT.	S.R. 7	CROSSING TYPE 3		
322+60.28	347.97 LT.	S.R. 7	I.A.P.A.	352.84	
323+57.34	341.88 LT.	S.R. 7	CROSSING TYPE 3		
325+56.24	340.93 LT.	S.R. 7	I.A.P.A.	331.47	
328+50.35	368.03 LT.	S.R. 7	I.A.P.A.	331.46	
333+52.27 [L]	579.22 LT.	S.R. 7	C.P.A.	618.72	
339+69.86	447.99 LT.	S.R. 7	I.A.P.A.	642.86	
339+83.42	448.86 LT.	S.R. 7	CROSSING TYPE 3		
343+59.87	472.99 LT.	S.R. 7	L.P.A.	390.81	
347+49.88	497.99 LT.	S.R. 7	I.A.P.A.	390.81	
351+47.36	423.22 LT.	S.R. 7	L.P.A.	391.15	
355+49.85	327.96 LT.	S.R. 7	I.A.P.A.	391.15	
361+58.00	381.82 LT.	S.R. 7	L.P.A.	581.81	
366+78.01	411.43 LT.	S.R. 7	CROSSING TYPE 3		
367+38.86	414.90 LT.	S.R. 7	L.P.A.	581.80	
373+19.72	447.98 LT.	S.R. 7	I.A.P.A.	581.80	
375+00.00	385.48 LT.	S.R. 7	I.A.P.A.	190.81	
377+10.58	289.10 LT.	S.R. 7	C.P.A.	229.89	
377+24.73 [L]	244.14 LT.	S.R. 7	I.A.P.A.	46.97	
376+78.99 [L]	66.26 LT.	S.R. 7	ABUTMENT	183.44	
378+15.78	293.79 LT.	S.R. 7	E.P.A.	38.87	
TOTALS CARRIED TO SHEET 1041				2174.40	8030.07

CALCULATED SER CHECKED ALB

ROADWAY FENCE PLAN

LAW-7-2.17

1039
1247

RIGHT OF MAINLINE					
STATION	OFFSET	LOCATION	POST TYPE	ITEM 607 - FENCE, TYPE 47 (FEET)	ITEM 607 - FENCE, TYPE CLT (FEET)
114+57.60	588.90 RT.	S.R. 7	C.P.A.		
114+98.48	438.57 RT.	S.R. 7	I.A.P.A.	226.61	
115+68.75	307.73 RT.	S.R. 7	I.A.P.A.	148.52	
117+57.72	167.94 RT.	S.R. 7	C.P.A.	235.05	
122+22.79	219.80 RT.	S.R. 7	I.A.P.A.	450.07	
126+19.26	195.93 RT.	S.R. 7	L.P.A.	376.15	
130+06.84	134.84 RT.	S.R. 7	I.A.P.A.	376.15	
131+90.95	157.55 RT.	S.R. 7	C.P.A.	178.70	
132+42.74	57.67 RT.	S.R. 7	ABUTMENT	111.87	
135+18.87	57.67 RT.	S.R. 7	ABUTMENT		
134+89.06	127.62 RT.	S.R. 7	C.P.A.	75.76	
137+24.84	157.99 RT.	S.R. 7	I.A.P.A.	229.22	
139+95.04	156.75 RT.	S.R. 7	I.A.P.A.	259.36	
141+49.96	148.00 RT.	S.R. 7	I.A.P.A.	149.18	
145+00.00	147.03 RT.	S.R. 7	C.P.A.	336.82	
145+00.00	125.08 RT.	S.R. 7	C.P.A.	21.96	
145+52.42	116.14 RT.	S.R. 7	I.A.P.A.	51.60	
146+02.43	113.46 RT.	S.R. 7	I.A.P.A.	48.62	
149+69.54	99.17 RT.	S.R. 7	I.A.P.A.	357.36	
151+01.53	96.24 RT.	S.R. 7	I.A.P.A.	128.74	
151+51.58	111.34 RT.	S.R. 7	I.A.P.A.	51.01	
152+50.00	105.34 RT.	S.R. 7	C.P.A.	95.90	
152+50.00	118.06 RT.	S.R. 7	C.P.A.	12.72	
153+00.08	112.98 RT.	S.R. 7	I.A.P.A.	48.87	
155+35.48 [L]	148.28 RT.	S.R. 7	E.P.A.	230.76	
155+35.48 [L]	148.28 RT.	S.R. 7	E.P.A.		
157+00.09	169.00 RT.	S.R. 7	I.A.P.A.		164.64
160+00.29	189.02 RT.	S.R. 7	C.P.A.		300.86
161+04.32	246.24 RT.	S.R. 7	CROSSING TYPE 3		
161+49.85	271.29 RT.	S.R. 7	C.P.A.		170.70
162+39.60	189.01 RT.	S.R. 7	C.P.A.		121.75
164+31.02	182.81 RT.	S.R. 7	E.P.A. - GATE		191.52
164+53.73	192.11' RT.	S.R. 7	E.P.A. - GATE		
164+59.05	179.63' RT.	S.R. 7	C.P.A.		13.57
165+88.26	164.99 RT.	S.R. 7	C.P.A.		130.04
166+87.10	174.51 RT.	S.R. 7	C.P.A.		99.29
169+81.74	297.19 RT.	S.R. 7	C.P.A.		319.15
170+13.51	219.10 RT.	S.R. 7	C.P.A.		84.30
170+75.52	209.08 RT.	S.R. 7	C.P.A.		62.82
171+03.53	170.53 RT.	S.R. 7	C.P.A.		47.65
172+16.52	216.32 RT.	S.R. 7	C.P.A.		121.92
172+59.88	193.94 RT.	S.R. 7	C.P.A.		48.79
173+20.07	208.99 RT.	S.R. 7	C.P.A.		62.05
175+09.40 [L]	189.06 RT.	S.R. 7	C.P.A.		190.38
175+39.31 [L]	139.18 RT.	S.R. 7	C.P.A.		58.23
176+22.11 [L]	138.99 RT.	S.R. 7	C.P.A.		84.04
176+98.04	172.48 RT.	S.R. 7	C.P.A.		85.36
177+08.85	140.05 RT.	S.R. 7	C.P.A.		34.34
180+40.03	168.99 RT.	S.R. 7	C.P.A.		351.13
182+40.57	158.99 RT.	S.R. 7	C.P.A.		213.23
183+06.24	298.86 RT.	S.R. 7	C.P.A.		157.02
183+48.64	288.92 RT.	S.R. 7	CROSSING TYPE 3		
183+94.78	279.04 RT.	S.R. 7	C.P.A.		100.24
184+59.52	249.14 RT.	S.R. 7	C.P.A.		77.25
185+59.65	159.35 RT.	S.R. 7	C.P.A.		140.36
186+71.68	155.38 RT.	S.R. 7	I.A.P.A.		118.47
189+80.15	159.00 RT.	S.R. 7	C.P.A.		313.73
192+40.14	234.00 RT.	S.R. 7	C.P.A.		270.59
192+79.56	233.71 RT.	S.R. 7	CROSSING TYPE 3		
193+56.77	233.14 RT.	S.R. 7	C.P.A.		116.63
194+85.13	142.69 RT.	S.R. 7	C.P.A.		157.03
195+32.02	64.58 RT.	S.R. 7	MSE WALL		91.10
195+60.95	1.42 RT.	S.R. 7	MSE WALL		
196+25.22	1.42 RT.	S.R. 7	MSE WALL		

RIGHT OF MAINLINE					
STATION	OFFSET	LOCATION	POST TYPE	ITEM 607 - FENCE, TYPE 47 (FEET)	ITEM 607 - FENCE, TYPE CLT (FEET)
195+99.28	64.58 RT.	S.R. 7	MSE WALL		
195+81.03	96.77 RT.	S.R. 7	C.P.A.		37.00
195+68.65	112.48 RT.	S.R. 7	C.P.A.		20.00
194+86.21	54.73 RT.	S.R. 7	C.P.A.		47.13
198+70.13	239.00 RT.	S.R. 7	C.P.A.		326.72
200+13.32	236.12 RT.	S.R. 7	E.P.A.		132.82
201+34.18	229.14 RT.	S.R. 7	E.P.A.		
205+30.50	176.30 RT.	S.R. 7	C.P.A.		375.28
205+00.47	88.93 RT.	S.R. 7	I.A.P.A.		92.00
204+90.59	64.78 RT.	S.R. 7	MSE WALL		26.00
204+81.41	1.30 RT.	S.R. 7	MSE WALL		
205+39.80	1.28 RT.	S.R. 7	MSE WALL		
205+80.12	64.59 RT.	S.R. 7	MSE WALL		
205+65.08	108.16 RT.	S.R. 7	C.P.A.		45.94
205+91.79	100.41 RT.	S.R. 7	C.P.A.		27.00
207+51.10	96.51 RT.	S.R. 7	I.A.P.A.		154.55
208+54.35	98.70 RT.	S.R. 7	I.A.P.A.		100.19
209+21.01	102.81 RT.	S.R. 7	C.P.A.		64.74
209+49.05	142.81 RT.	S.R. 7	C.P.A.		48.26
212+39.74 [S]	167.22 RT.	S.R. 7	I.A.P.A.		278.17
216+50.39	164.00 RT.	S.R. 7	C.P.A.		407.13
217+53.42	259.41 RT.	S.R. 7	C.P.A.		140.42
217+70.71	298.64 RT.	S.R. 7	C.P.A.		42.87
218+50.04	258.86 RT.	S.R. 7	C.P.A.		88.74
219+00.79	289.31 RT.	S.R. 7	C.P.A.		59.18
219+16.31	325.69 RT.	S.R. 7	C.P.A.		39.55
218+90.60	337.03 RT.	S.R. 7	C.P.A.		28.09
219+08.80	397.97 RT.	S.R. 7	E.P.A.		63.60
219+08.80	397.97 RT.	S.R. 7	E.P.A.		
224+53.09	366.89 RT.	S.R. 7	L.P.A.	545.17	
229+58.42 [S]	350.39 RT.	S.R. 7	I.A.P.A.	545.18	
229+74.36 [S]	343.74 RT.	S.R. 7	CROSSING TYPE 3		
233+55.63 [S]	264.84 RT.	S.R. 7	L.P.A.	501.71	
238+10.02	317.98 RT.	S.R. 7	I.A.P.A.	501.72	
238+30.22	315.24 RT.	S.R. 7	CROSSING TYPE 3		
244+00.00	238.01 RT.	S.R. 7	I.A.P.A.	595.11	
247+69.92	198.00 RT.	S.R. 7	L.P.A.	372.32	
247+86.29	196.23 RT.	S.R. 7	CROSSING TYPE 3		
251+41.97 [L]	157.79 RT.	S.R. 7	I.A.P.A.	372.32	
253+72.06	188.12 RT.	S.R. 7	C.P.A.	216.71	
254+41.66	338.01 RT.	S.R. 7	C.P.A.	161.13	
258+71.35	297.70 RT.	S.R. 7	C.P.A.	353.62	
258+94.28	161.72 RT.	S.R. 7	CROSSING TYPE 3		
259+03.75	97.78 RT.	S.R. 7	C.P.A.	201.98	
262+00.11	107.99 RT.	S.R. 7	I.A.P.A.	278.92	
267+29.95	107.98 RT.	S.R. 7	I.A.P.A.	495.52	
269+31.91 [S]	117.61 RT.	S.R. 7	I.A.P.A.	190.19	
270+75.89 [L]	136.70 RT.	S.R. 7	I.A.P.A.	140.15	
271+63.65 [L]	180.64 RT.	S.R. 7	I.A.P.A.	97.00	
271+79.40	203.11 RT.	S.R. 7	C.P.A.	27.42	
274+60.00	270.87 RT.	S.R. 7	C.P.A.	288.67	
274+84.10	246.95 RT.	S.R. 7	CROSSING TYPE 2		
275+28.46	202.93 RT.	S.R. 7	C.P.A.	96.45	
277+98.13 [L]	214.72 RT.	S.R. 7	CROSSING TYPE 3		
278+61.58 [S]	217.97 RT.	S.R. 7	C.P.A.	335.79	
279+49.73	157.80 RT.	S.R. 7	C.P.A.	109.13	
281+40.25	227.96 RT.	S.R. 7	I.A.P.A.	209.05	
283+71.12 [L]	208.09 RT.	S.R. 7	I.A.P.A.	240.12	
285+50.36	268.01 RT.	S.R. 7	I.A.P.A.	189.83	
285+62.16	268.40 RT.	S.R. 7	CROSSING TYPE 3		
289+47.81	281.26 RT.	S.R. 7	CROSSING TYPE 3		
291+49.84	287.99 RT.	S.R. 7	I.A.P.A.	599.82	
296+40.92	193.96 RT.	S.R. 7	I.A.P.A.	500.00	
297+67.93	140.59 RT.	S.R. 7	C.P.A.	137.76	

RIGHT OF MAINLINE					
STATION	OFFSET	LOCATION	POST TYPE	ITEM 607 - FENCE, TYPE 47 (FEET)	ITEM 607 - FENCE, TYPE CLT (FEET)
297+82.55	57.67 RT.	S.R. 7	ABUTMENT	84.21	
297+90.54	12.33 RT.	S.R. 7	ABUTMENT		
300+55.11	12.33 RT.	S.R. 7	ABUTMENT		
300+47.12	57.67 RT.	S.R. 7	ABUTMENT		
300+40.93	92.75 RT.	S.R. 7	CROSSING TYPE 1		
300+36.44	118.22 RT.	S.R. 7	C.P.A.	61.49	
300+90.75	107.82 RT.	S.R. 7	C.P.A.	55.30	
301+60.77	187.84 RT.	S.R. 7	C.P.A.	106.33	
304+59.85	138.00 RT.	S.R. 7	I.A.P.A.	303.21	
309+99.96	148.00 RT.	S.R. 7	I.A.P.A.	540.20	
315+50.63	117.96 RT.	S.R. 7	C.P.A.	551.49	
317+71.73 [L]	288.09 RT.	S.R. 7	I.A.P.A.	278.34	
318+00.00 [L]	294.43 RT.	S.R. 7	C.P.A.	28.08	
318+00.00 [L]	272.98 RT.	S.R. 7	C.P.A.	21.45	
318+50.00 [L]	292.36 RT.	S.R. 7	I.A.P.A.	51.44	
319+50.00 [S]	311.54 RT.	S.R. 7	C.P.A.	93.80	
319+50.00 [S]	324.28 RT.	S.R. 7	C.P.A.	12.73	
320+40.00	338.38 RT.	S.R. 7	I.A.P.A.	80.84	
321+01.53	323.64 RT.	S.R. 7	HEADWALL	56.38	
321+12.81	326.82 RT.	S.R. 7	HEADWALL		
321+50.00	352.05 RT.	S.R. 7	C.P.A.	41.37	
326+25.30	367.99 RT.	S.R. 7	I.A.P.A.	415.39	
328+00.00	409.66 RT.	S.R. 7	C.P.A.	156.61	
328+00.00	397.10 RT.	S.R. 7	C.P.A.	12.56	
328+50.00	394.80 RT.	S.R. 7	I.A.P.A.	43.15	
329+00.00	399.31 RT.	S.R. 7	I.A.P.A.	43.31	
329+50.00	408.84 RT.	S.R. 7	C.P.A.	43.99	
329+50.00	437.25 RT.	S.R. 7	C.P.A.	28.41	
331+50.52	463.04 RT.	S.R. 7	I.A.P.A.	170.93	
335+24.69	551.81 RT.	S.R. 7	I.A.P.A.	342.80	
336+43.43	544.57 RT.	S.R. 7	HEADWALL	118.96	
336+53.36	547.98 RT.	S.R. 7	HEADWALL		
337+62.05	607.85 RT.	S.R. 7	C.P.A.	124.09	
339+02.31	491.39 RT.	S.R. 7	C.P.A.	182.31	
339+15.07	506.75 RT.	S.R. 7	C.P.A.	19.97	
340+49.29	418.07 RT.	S.R. 7	C.P.A.	160.87	
345+57.45	355.04 RT.	S.R. 7	L.P.A.	512.06	
350+60.53	293.13 RT.	S.R. 7	L.P.A.	512.06	
355+50.89	257.97 RT.	S.R. 7	C.P.A.	512.05	
357+01.06	458.20 RT.	S.R. 7	C.P.A.	255.28	
358+99.33	507.76 RT.	S.R. 7	C.P.A.	218.55	
361+59.05	198.07 RT.	S.R. 7	C.P.A.	411.34	
365+54.63	168.02 RT.	S.R. 7	L.P.A.	396.73	
368+50.23	137.98 RT.	S.R. 7	C.P.A.	396.72	
369+50.43	128.84 RT.	S.R. 7	C.P.A.	9.14	
370+00.55	142.50 RT.	S.R. 7	I.A.P.A.	51.96	
370+89.37	154.78 RT.	S.R. 7	L.P.A.	89.66	
372+12.21	171.89 RT.	S.R. 7	L.P.A.	124.02	
372+56.66	180.65 RT.	S.R. 7	I.A.P.A.	45.30	
372+94.03	195.27 RT.	S.R. 7	I.A.P.A.	40.14	
373+59.36	239.58 RT.	S.R. 7	I.A.P.A.	78.93	
374+20.18	259.83 RT.	S.R. 7	L.P.A.	64.11	
374+65.59	272.13 RT.	S.R. 7	I.A.P.A.	47.04	
375+07.92	298.97 RT.	S.R. 7	I.A.P.A.	50.12	
375+66.63	320.57 RT.	S.R. 7	I.A.P.A.	62.56	
375+81.87	324.32 RT.	S.R. 7	C.P.A.	15.70	
376+26.93 [L]	138.54 RT.	S.R. 7	ABUTMENT	158.18	
376+36.08 [L]	100.78 RT.	S.R. 7	ABUTMENT		
376+46.52 [L]	57.67 RT.	S.R. 7	ABUTMENT	44.37	
376+59.41 [L]	12.33 RT.	S.R. 7	ABUTMENT		
376+65.45 [L]	12.00 LT.	S.R. 7	ABUTMENT	25.07	
377+26.44 [L]	360.88 RT.	S.R. 7	E.P.A.	152.01	
TOTALS CARRIED TO SHEET 1041				21006.90	7143.56

CALCULATED SER CHECKED ALB

ROADWAY FENCE PLAN

LAW-7-2.17

S.R. 775					
STATION	OFFSET	LOCATION	POST TYPE	ITEM 607 - FENCE, TYPE 47 (FEET)	ITEM 607 - FENCE, TYPE CLT (FEET)
378+83.95	423.52 LT.	S.R. 7	E.P.A.	38.54	
378+73.40	461.04 LT.	S.R. 7	C.P.A.	120.07	
61+50.00	269.83 LT.	S.R. 775	I.A.P.A.	90.00	
61+92.99	190.76 LT.	S.R. 775	C.P.A.	61.07	
62+53.50	198.98 LT.	S.R. 775	C.P.A.	70.73	
63+02.09	147.58 LT.	S.R. 775	I.A.P.A.	120.56	
64+08.14	90.23 LT.	S.R. 775	I.A.P.A.	94.73	
65+01.43	73.78 LT.	S.R. 775	I.A.P.A.	98.57	
66+00.00	74.29 LT.	S.R. 775	I.A.P.A.	181.73	
67+80.15	67.98 LT.	S.R. 775	I.A.P.A.	373.39	
68+50.02	72.96 LT.	S.R. 775	I.A.P.A.	71.48	
69+39.29	53.38 LT.	S.R. 775	E.P.A.	84.10	
69+08.13	35.00 RT.	S.R. 775	E.P.A.		
69+08.25	70.19 RT.	S.R. 775	I.A.P.A.		
390+05.99	1061.35 LT.	S.R. 7	I.A.P.A.		
TOTALS THIS SHEET				1404.97	0.00
TOTALS FROM SHEET 1039				21174.40	8030.07
TOTALS FROM SHEET 1040				21006.90	7143.56
TOTALS				43586.27	15173.63
TOTALS CARRIED TO GENERAL SUMMARY				43587	15174

GROUND RODS				
STATION	OFFSET	LOCATION	O.H.E. TRANS. LINE	ITEM 625 - GROUND ROD (EACH)
276+75.26	209.44 RT.	S.R. 7	138 Kv	1
277+36.19	126.74 LT.	S.R. 7	138 Kv	1
278+43.36	128.18 LT.	S.R. 7	138 Kv	1
277+88.50	127.54 LT.	S.R. 7	138 Kv	1
TOTALS CARRIED TO GENERAL SUMMARY				4

CALCULATED SER
CHECKED ALB

ROADWAY FENCE PLAN

LAW-7-2.17

1041
1247

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